SITE SCREENING ASSESSMENT

Prepared by: Rafiq Ahmed
California Department of Toxic Substances Control
Cooperative Agreement Number: V-97999001 - 0
DTSC Fiscal Year: 2009-2010

Prepared for: Carl Brickner
United States Environmental Protection Agency
Region 9
States, Planning, and Assessment Office
San Francisco, California

Date: May 20, 2010
Revised Date: September 7, 2010

Site Name: CHERRY AEROSPACE
City: Santa Ana
County: Orange
EPA ID Number: CAD008493603
CADTSC Envirostor ID Number: 60001102
DTSC Regional Office: Cypress (4)

EXECUTIVE SUMMARY

Site Name:	**Cherry Aerospace**
EPA ID Number:	**CAD008493603**
Envirostor ID:	
Site Screen	**YES:** ☒ **NO:** ☐
Site Reassessment	**YES:** ☐ **NO:** ☒

Findings and Recommendation :

Pre-Triage Recommendation						
Refer to: ☐ EPA ☒ CADTSC ☐ CARWQCB ☐ Local Agency						
FORWARD TO TRIAGE:	☐	Yes	☒	No		
Post-Triage Recommendation						
Refer to: ☐ EPA ☐ CADTSC ☐ CARWQCB ☐ Local Agency						

Final Signatures and Concurrence:

DTSC Screener:	M Rafiq Ahmed Signature	Rafiq Ahmed Type Name	09/07/2010 Date: (MM/DD/YYYY)
DTSC Approval:	Greg Holmes Signature	Greg Holmes Type Name	9/7/10 Date: (MM/DD/YYYY)
EPA Concurrence:	 Signature	Carl Brickner Type Name	 Date: (MM/DD/YYYY)

SITE SCREENING ASSESSMENT (SSA)

Site Screening: ☒ \ **Site Reassessment:** ☐

Section 1: Site Information

1.1: Site Name: Cherry Aerospace
Other Names: Cherry Aerospace (2007), Textron Fastening Systems / Acument Global Technologies (2003), Textron Aerospace Fasteners (1995), Cherry Textron (1959), Cherry Townsend (1951), Cherry Rivet Company (1940)

1.2: Origin of Site under assessment:

Discovery Project/Name: Southeast Santa Ana Site Discovery Project
or
Referral from other Agency/Name:
or
Complaint/ Name:
or
In CERCLIS (for Reassessments):

1.3: Site Location Information

Street Address: 1224 E. Warner Avenue

City: Santa Ana **County:** Orange

State: CA **Zip Code:** 92705

Latitude: 33.71594 **Longitude:** -117.85607

Acres: +/- 15

1.3 Regulatory Information:

CERCLIS? No **RCRA site?** No

SLIC site? No **LUFT site?** Yes

UST site? Yes **WIP site?** No

Landfill site? No **Local Agency site?** Yes

Envirostor ID: 60001102 **EPA ID:** CAD008493603

Geotracker ID: None **Geotracker Case Number:** None

Is the contamination petroleum related: No

Section 2: Operational History

Historical owners/operators that may have used Hazardous Materials onsite:
Specify dates and materials that may have been used:

Current owner: Precision Castparts Corp (PCC)
Current operator: Cherry Aerospace
Hazardous materials used: sodium cyanide, nitric acid, sulfuric acid, cadmium, solvents
Dates of operation: 3/31/2007 – to date

Owners: Textron, Inc.
Operators: Textron Aerospace Fasteners (TAF)
Hazardous materials used: chromium, cyanide, alkali and oily rinse waste, metal sludge, sludge thickeners.
Hazardous materials suspected: nitric acid, sulfuric acid, cadmium, wastewater
Dates of operation: 2003 – 2007

Owners: Textron, Inc.
Operators: Cherry Textron
Hazardous materials used: 1,1,1-trichloroethane (1,1,1-TCA), TCE, methylene chloride, Freon-113, Vythane D, and Safety Solvent "C".
Hazardous materials suspected: nitric acid, sulfuric acid, cadmium, wastewater
Dates of operation: 1996 - 2003

Owners: Textron, Inc.
Operators: Cherry Division of Textron
Hazardous materials used: Sulfuric Acid, petroleum liquids and waste oil, paints, thinners and spray painting cans, potassium hydroxide, virgin oils,
Hazardous materials suspected: nitric acid, sulfuric acid, cadmium, wastewater
Dates of operation: 1959 - 1996

Owners: Townsend Company of New Brighton, Pennsylvania
Operators: Cherry Rivet Division (aka Boots Aircraft Nut Division) of Townsend Company
Hazardous materials used: acids and basic chemicals, solvents, caustics, diesel, machine oil, lube oil, cutting oils and draw oils, waste oils and virgin oils, oily water, sludge thickeners, wastewater, soap rinse, asbestos, argon, propane,
Hazardous materials suspected: Paint
Dates of operation: 1952 - 1959

Owners: Unknown before 1952
Operators: Unknown before 1952
Hazardous materials used: Unknown before 1952
Hazardous materials suspected: Unknown before 1952
Dates of operation: Unknown before 1952

Section 3: Site Impact Information

What is the site setting: Urban
Details: Cherry Aerospace site is located at 1224 E. Warner Avenue, Santa Ana, Orange County, California 92705 (**Attachment 1**). The facility is located within an industrial and commercial area.

Land use surrounding the site: Industrial/Commercial/Residential
Details: The site is bounded by railroad tracks and Sakioka Farms (a machinery storage area) on the east, parking lot and single-family residential area on the west and south, and Warner Avenue, a small commercial area and other industrial units on the north.

Are there residences within 200 feet: Yes
Details: Single-family residential units are located on the south, west and north-west of the site.

Are there schools/day care centers within 200 feet: No
Details: The closest school is approximately one mile away.

Surface water within 2 miles of the site? No
Details:

Are there any sensitive environments or wetlands within 2 miles of site: No
Details:

Is this site a source of contamination to surface water? No
Details:

Is surface water used for drinking water within 15 miles of the site? No

If yes, is the surface water used for public / commercial supply:

If yes, is the surface water used for private supply:

If yes, approximately how many people served by the surface water:

Details:

Is groundwater used for drinking water within 4 miles of site? Yes

If yes, are the drinking wells public / commercial: Yes **or private**

If yes approximately how many people served by the ground water: 9000
Details: According to the Irvine Water District (IRWD), IRWD supplies water to a population of more than 230,000 persons in the south central Orange County (IRWD, 2003). The average daily demand of about 40 million gallons is met through 18 active groundwater wells and imported water from Metropolitan Water District. Approximately 35% of IRWD's drinking water is purchased from the Metropolitan Water District of Southern California. The remaining 65 % comes from local public wells.

Is groundwater within 4 miles of the site known to be contaminated with hazardous substances Yes

If yes, what hazardous substances : Three chemicals of concern, tetrachloroethene (PCE), trichloroethene (TCE) and perchlorate, have been detected in a drinking water supply well, IRWD-3, in the Dyer Road Wellfield (DRWF).

If yes, do any of the levels exceed drinking water standards? Yes

Details: According to an Orange County Water District (OCWD) Technical Memorandum and Work Plan July 2007, the highest concentrations of PCE (500 ug/L) and TCE (776 ug/L) in regional monitoring wells are found in Well No. SCC-D1 located on the Holchem/Service Chemical site, approximately 2,400 feet northeast of IRWD-3. Maximum concentrations of PCE and TCE in IRWD-3 have been 5.5 ug/L and 2 ug/L, respectively. PCE has been detected above the maximum contaminant level (MCL) for drinking water of 5 ug/L in only two samples and TCE has not been detected higher than the MCL of 5 ug/L. Perchlorate detections have ranged from 2.8 ug/L to 7.9 ug/L and exceeded the California proposed MCL of 6 ug/L in four samples from IRWD-3 well. The distribution of perchlorate detections is slightly different than the VOC detections. IRWD-3 has been taken out of service due to VOC detections. Areas northeast of IRWD-3 may represent the area of highest risk to the water supply wells based on subsurface geology, predominant groundwater flow directions, capture zones of pumping wells, and estimated time of travel. Monitoring wells at some facilities, within a half-mile radius of IRWD-3 in the northeast, contain some of the highest concentrations of PCE, TCE, and/or perchlorate.

Is this site a source of ground water contamination? Yes
Details: Water quality monitoring data for groundwater production well IRWD-3 located approximately 400 feet west southwest of Cherry Aerospace site, show concentrations of VOCs, including trichloroethene (TCE), tetracholoroethylene (PCE), 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113) and 1, 4-dioxane in groundwater samples from this well. During the inspection of the facility on May 4, 2007, Cherry Aerospace informed DTSC that the chlorinated solvents PCE, TCE and Freon 113 were used for cleaning until they were phased out about 12 years ago. Groundwater monitoring wells were installed in May 2010 at this site, under DTSC oversight. A total of 20 groundwater samples including duplicate samples (from wells CDM-MW-3S and 3D) were collected during the May 2010 groundwater investigation activities and analyzed for VOCs including 1,4-dioxane. The laboratory analytical results indentified 17 VOCs and 1,4-dioxane above the reporting limits in the groundwater samples; 10 of the VOCs – including PCE and TCE and their breakdown products- methylene chloride, and 1,4-dioxane were above the MCLs. Concentrations of TCE detected in groundwater samples from the shallow and deeper zone wells at CDM-MW-3S/3D and CDM-MW-6S/6D (1,100 ug/l maximum TCE detected in the shallow well; 400 ug/l in the deeper well) are higher than concentrations of 27 ug/l in the shallow zone sample and below the reporting limit in the deeper groundwater sample from monitoring well No. CDM-MW-9S/9D.

Any Community Involvement? No
Details:

Site Reconnaissance

1. **Date of visit:** 3/23/2010
2. **Adjacent properties:**

   North: Warner Avenue and commercial/industrial units
   South: Railroad tracks and single-family residential units
   East: Railroad tracks and other light industrial units
   West: Single-family residential units

3. **Structures onsite (e.g. Office Bldg, Paint Booth, Repair Shop etc.):** The Cherry Aerospace facility contains an Oil Wastewater Treatment Unit, Chromium Treatment Unit and Sludge Dryer unit. A Storage area is located in the Chemical Storage Building on the southwest corner of the property. In addition, parking, a storage building, a maintenance building and a wastewater treatment area are located adjacent to the facility buildings. The metal finishing process wastewater pretreatment facility is located at the southwest corner of the site. The main entrance to the facility is located along Warner Avenue. For more detail refer to the basic site plan (**Attachment 2**).

4. **Any visual staining:** Unknown

5. **Any hazardous Materials storage onsite:** Yes
   According to the inspection conducted by DTSC and USEPA on February 5, 2004, hazardous materials were observed to be stored on site. The purpose of the inspection was to verify the information in the Phase I Environmental Site Assessment Checklist (Phase I Checklist) submitted by Cherry Textron to DTSC on December 16, 1996.

6. **Specify any hazardous Materials used onsite:** Yes
   Type of waste streams included aqueous waste with inorganics, sludges, oily water, and alkaline/acidic waste.

7. **Indicate if following are present onsite, specify volume, content and how many:**

a) **Drums:** Yes
b) **ASTs:** Yes
c) **USTs:** No, but historically up to eight USTs were on site in the past. However, according to Phase I Environmental Site Assessment, November 2005, by ENSR International, three historical USTs, one 900-gallon, one 3,060-gallon and one 4,200-gallon UST were listed on EDR's Radius Map. At least the two larger USTs are known to have been present at the site. Although the tanks are out of use and were reported filled with slurry, there is no information available regarding possible leaks, sampling as part of the closure process, or other information, which adequately documents that the tanks or piping did not cause a release to soil or groundwater.
d) **Clarifiers:** Yes
e) **Other:** 15 sumps, located outside the plating area, used as secondary holding tanks. For more detail refer to tank schedule (**Attachment 3**).

8. **Any transformers containing PCBs?** Unknown

9. **Any previous sampling results:** Yes

According to the Phase I Environmental Site Assessment, November 2005, by ENSR International, an asbestos survey was conducted in 1985 and found asbestos in the steam pipe insulation, four furnaces, various vinyl floor tiles and roof duct sealer and mastic. Following the survey, asbestos was removed from the steam pipe insulation and replaced with fiberglass. The asbestos was also removed from four furnaces. The vinyl floor tiles were encapsulated and then, in some areas, covered with carpeting.

A limited soil investigation was conducted in March 2002 at the Plating Shop associated with the Surface Preparation Area located in the eastern portion of the site. Twelve (12) shallow soil borings identified as borings T-1 through T-12 on a site plan were advanced inside and in the vicinity of the Surface Preparation Area consisting of an Alodine Area, an Anodize Area and a Chromate Dip Area. Soil samples were collected from near surface, at 2.5-feet below ground surface (bgs) and 5-feet bgs and analyzed for Title 22 Metals by EPA Method 7000 Series analyses for Total Threshold Limit Concentrations (TTLC) and for pH by EPA Method 9045C. Available data provided to Camp Dresser & McKee Inc (CDM) indicated that pH results were mostly in the alkaline range (greater than 7 and as high as 10.5 in sample T-9 collected from near surface located in the vicinity of a trench drain in the southeastern corner of the room). One soil sample had a pH of 5.6 (sample T-3 collected from near surface). Laboratory analytical data for Title 22 Metals indicated that none of the soil samples analyzed exceeded the TTLC for metals.

A limited Phase II site investigation, January 2008, was conducted by CDM under DTSC oversight. A total of 17 volatile organic compounds (VOCs) were detected in 100 soil samples, above the method detection limit (MDL). A total of 28 VOCs were detected above the MDL in 42 soil gas samples collected from the site. The highest TCE concentration in soil gas was detected from the former Cherrymax vapor degreaser area collected at a depth of 4.5 feet below the concrete floor level. The corresponding TCE concentration in soil was only 13 ug/kg; suggesting that the potential source was nearby and had not been defined. A total of four (4) groundwater samples were collected using a Geoprobe. The highest concentrations of VOCs (TCE=340 ug/l, PCE = 12 ug/l) were detected in the groundwater sample from a parts washer located in the vicinity of the Heat Treat Area.

A total of 79 soil samples were analyzed for Title 22 Metals, cyanides, and pH. In addition, ten (10) soil samples collected from four soil borings advanced in the vicinity of the purported locations of the two USTs were analyzed for organic lead. Organic lead was not detected above the reporting limit. Metal concentrations were within the range of concentration for naturally occurring metals in soils. Two soil samples which contained elevated concentrations of total chromium were further analyzed for hexavalent chromium. One soil sample from a cyanide wastewater sump area (Sump-3) from the 1-foot depth contained 200 mg/kg of total chromium which was analyzed for hexavalent chromium by EPA Method 7199. The sample was non-detected (below 0.40 mg/kg) for hexavalent chromium. The pH results for soil samples generally ranged from 7.2 to a high of 11, reported in two samples collected from chemical storage area sump and trench drain. Total cyanides were detected in 9 of the soil samples (collected from Sump 3 and 4, and wastewater treatment plant and wastewater collection tanks located south end of the facility) analyzed and ranged from 0.32 mg/kg to 1.3 mg/kg (Attachment 5).

Section 4: Recommendations/Conclusions

Does the site pose an immediate threat and require Removal? No

Have there been any historical releases at the site: Yes

Based on the site reconnaissance and/or regulatory search is there a potential for a release at the site? Unknown

Based on the site inspection dated June 18, 2009, Cherry Aerospace submitted a Workplan for Further Investigation (FI) on October 8, 2009 which supplements prior investigations. A Revised FI Workplan was submitted on January 27, 2010. DTSC approved the Workplan on January 28, 2010. DTSC received Draft FI Report on August 9, 2010. Based on the results of the FI and the previous investigation, chlorinated VOCs, primarily TCE, PCE, and their breakdown products exceed their screening levels in soil, soil gas and groundwater samples collected from soil borings, soil gas probes and groundwater monitoring wells installed at the site. DTSC recommends conducting a human risk assessment to characterize risks to onsite and offsite receptors using data for VOCs in onsite soil, soil gas, and on-site groundwater and potentially offsite groundwater. Based on the results of the risk assessment, options for the short and long-term mitigation/control of VOCs that are present in the onsite soils, soil gas, and groundwater may also have to be evaluated. Such evaluation would involve conducting a feasibility study (FS) or corrective measures study.

Summary

Cherry Aerospace (Cherry-Textron) is located at the southeast corner of East Warner Avenue and South Standard Avenue, approximately ½ mile west of the Costa Mesa (55) Freeway in the City of Santa Ana, Orange County, California. The site is in an area zoned for light industrial use. Cherry Aerospace and its predecessor companies have been sole tenants of the main building since its construction in 1952.

The site is approximately 15 acres in size. Single family residences are located west and northwest of the site. The site is a manufacturing facility for different fasteners used in the aerospace industry. The facility consist of a main building, a maintenance shop, a chemical storage building, and a wastewater treatment plant, associated paved driveways and parking lots. The facility layout is shown in the facility Site Plan.

Results of the site investigation by Camp Dresser & McKee Inc (CDM) indicated elevated concentrations of VOC's detected in soil vapor, soil matrix, and groundwater samples both inside and outside of the facility. The levels of all VOCs detected were above the respective CHHSL value. On May 2, 2008, CDM submitted the results of the Cherry Aerospace site investigation and their recommendations for further investigation to define vertical and/or lateral extent of VOC impacted soil and contamination to DTSC.

Based on inspections and visual observations in February and March 2009 by Innovative Consultants Incorporated, there are a total of 30 active tanks and vessels included in the wastewater pretreatment tank system at Cherry Aerospace facility. The principal processes in the process wastewater pretreatment systems are wastewater equalization, oil separation, metals conversion, metals removal and cyanide destruction, flocculation and sedimentation, sludge thickening, sludge dewatering, and sludge drying (**Attachment 4**).

The preliminary results of the FI August 2010 and the previous investigation show the presence of chlorinated VOCs, primarily TCE, PCE, and their breakdown products exceeding their screening levels in soil, soil gas and groundwater samples collected from soil borings, soil gas probes and groundwater monitoring wells installed at the site. Concentrations (maximum) of TCE detected in groundwater samples from the shallow and deeper zone well CDM-MW-6S/6D are 1,100 ug/l and 400 ug/l respectively. DTSC recommends conducting a human risk assessment to characterize risks to onsite and offsite receptors using data for VOCs in onsite soil, soil gas, and on-site groundwater and potentially offsite groundwater. Based on the results of the risk assessment, options for the short and long-term mitigation/control of VOCs that are present in the onsite soils, soil gas, and groundwater may also have to be evaluated. Such evaluation would involve conducting a feasibility study (FS) or corrective measures study.

Attachment A
SITE SCREENING ASSESSMENT CONTACT REPORT

Site Name: Cherry Aerospace **Site Screener:** Rafiq Ahmed

Contact Name	Affiliation	Telephone Number	Date	Discussion
Elouise Root-Administration	Santa Ana Fire Dept.	714-647-5757	2/2/2010	Visited Santa Ana Fire Dept. and reviewed the records
Katherine Arrasmith	OC Health Care Agency Environmental Health	714-433-6029	1/26/2010	Sent Letter to OCHCA (EH) for Record Review.
Katherine Arrasmith	OC Health Care Agency Environmental Health	714-433-6029	2/24/2010	Visited OCHCA (EH) office and did the file review.
David P. Bolin	OC Water District	714-378-3245	3/04/2010	Called as well as sent e-mail for Record Review. Received CDs containing site record
Robert Romero	DTSC	714-484-54	5/18/2010	Discussed the status of current investigation and Further Investigation (FI) and the recommended remedial and/or removal action plan.

Attachment B

SITE EVALUATION MAP AND BACKUP COVER PAGE

Attachment C
SITE SCREENING ASSESSMENT ATTACHMENT INDEX
Site Name: Cherry Aerospace **Site Screener:** Rafiq Ahmed

Attachment #	Document Title	Date	Details of Attachment
1	Site Location Map	02/05/2004	This map was provided to DTSC by Cherry Aerospace.
2	Site Plan	10/19/2005	Site sampling Locations with adjacent properties
3	Wastewater Treatment Flow Diagram	03/19/2009	Equalization Process
4	Site Investigation Results	02/08/2008	Camp Dresser & McKee (CDM) conducted the site investigation
5	Tank Schedule Site Photos	03/19/2009	Tanks/vessels in use with year in service
5	Site Photos	03/23/2010	Site and Surrounding Views
6	EnviroStor Site Map	05/17/2010	EnviroStor Site Map

Attachment D

SITE TYPE – PRIMARY/SECONDARY ACTIVITY FORM

Fed Facility Indicator: ☐ Federal Facility ☒ Not A Federal Facility ☐ Status Undetermined

RCRA Status: ☒ Generator ☐ TSDF ☐ Transporter ☐ Not listed in RCRIS

SITE TYPES **(Designate one dominant primary category (*PC*). Designate all secondary subcategories (*SS*) that apply.) Site type designations for both primary & secondary should pertain to the operation(s) on site of environmental consequence.**

P C	*S S*	**Manufacturing/Processing/Maintenance** (Subcategory)
☐	☐	Chemicals and allied products
☐	☐	Coal gasification
☐	☐	Coke production
☐	☐	Electric power generation and distribution
☐	☐	Electronic/electrical equipment
☐	☐	Fabrics/textiles
☐	☐	Lumber and wood products/pulp and paper
☐	☐	Lumber and wood products/wood preserving/treatment
☒	☐	Metal fabrication/finishing/coating and allied industries
☐	☐	Oil and gas
☐	☐	Ordnance production
☐	☐	Plastics and rubber products
☐	☐	Primary metals/minerals processing
☐	☐	Radioactive products
☐	☐	Tanneries
☐	☒	Trucks/ships/trains/aircraft and related components

P C	S S	**Waste Management** (Subcategory)
☐	☐	Radioactive waste treatment, storage, disposal
☐	☐	Municipal solid waste landfill
☐	☐	Mine tailings disposal
☐	☐	Industrial waste landfill
☐	☐	Industrial waste facility (non generator)
☐	☐	Illegal disposal/open dump
☐	☐	Co-disposal landfill (municipal and industrial)

P C	*S S*	**Other** (Subcategory)
☐	☐	Agricultural
☐	☐	Contaminated sediment site with no identifiable source
☐	☐	Dust control
☐	☐	Ground water plume site with no identifiable source
☐	☒	Military/other ordinance
☐	☐	Product storage/distribution
☐	☐	Research, development, and testing facility
☐	☒	Retail/commercial
☐	☐	Spill or other one time event
☐	☐	Transportation (e.g railroad yards, airports, barge docking site
☐	☐	Treatment works/septic tanks/other sewage treatment

P C	*S S*	**Mining** (Subcategory)
☐	☐	Coal
☐	☐	Metals
☐	☐	Non-metals minerals
☐	☐	Oil and gas

P C	S S	**Recycling** (Subcategory)
☐	☐	Automobiles/tires
☐	☐	Batteries/scrap metals/secondary smelting/precious metal recovery
☐	☐	Chemicals/chemicals waste (e.g. solvent recovery)
☐	☐	Drums/tanks
☐	☐	Waste/used oil

SITE TYPES **(Designate one dominant primary category (*PC*). Designate all secondary subcategories (*SS*) that apply.)**

Attachment E

SITE SCREENING ASSESSMENT SAMPLING EVENT SUMMARY TABLE

Site Name: Cherry Aerospace
1224 E. Warner Avenue, Santa Ana, CA 92705

Site Screener: Rafiq Ahmed

Date	Event	Media	Location	Depth	Method	Quality	Result	Benchmark
03/2002	Limited Soil Investigation	Soil	12 shallow soil borings (T-1 – T-12) at Plating Shop associated with the Surface Preparation area	2.5' – 5' below ground surface (bgs)	EPA 7000 Series for Title 26 Metals EPA 9045C For pH	- No QA/QC available	Laboratory analytical data for Title 26 metals indicated that none of the soil samples analyzed exceeded the Total Threshold Limit Concentrations (TTLC) for metals. pH values were mostly in the alkaline range (greater than 7 and as high as 10.5 in sample T-9 collected from near surface located in the vicinity of a trench drain in the southeastern corner of the Plating Shop). However, one soil sample had a pH of 5.6 (sample T-3 collected from near surface.	RSL
05/02/08	Site Investigation	Soil	100 soil samples collected from 24 areas	1', 5', 10' below ground surface	EPA 5035 VOCs	– No QA/QC available	A total of 17 volatile organic compounds (VOCs) were detected above the method detection limit (MDL). PCE: 28 mg/kg detected in soil sample SSA-012308-S1-1' TCE: 8.7 mg/kg detected in soil sample SUMP2-012408-S1-10'	1.3 mg/kg by EPA Region IX PRG 0.11 or 6.5 mg/kg California Modified PRG

Attachment E (Continued)
SITE SCREENING ASSESSMENT SAMPLING EVENT SUMMARY TABLE

Site Name: Cherry Aerospace, 1224 Warner Avenue, Santa Ana, CA 92705 **Site Screener:** Rafiq Ahmed

Date	Event	Media	Location	Depth	Method	Quality	Result	Benchmark
05/02/08	Site Investigation	Soil Gas	42 soil gas samples collected from indoor and outdoor locations	5', 10' below ground surface	EPA 8260B VOCs	QA/QC available	A total of 28 VOCs were detected above MDL. The highest concentrations detected in soil gas from indoor locations were; TEC: 1,100.00 ug/m3 for former Vapor Degreaser Cherry Max Area PCE: 6,700 ug/m3 for former Parts Washer PW1 Heat Treat Area	 1,770 ug/m3 CHHSLs 603 ug/m3 CHHSLs
		Water	4 samples collected using a Geo-probe	10' – 20' Below ground surface	EPA 8260B VOCs		The highest concentration of VOCs was detected in the groundwater sample from Parts Washer PW-1 located in the vicinity of the Heat Treat Area. TCE: 340 ug/L PCE: 12 ug/L	 5 ug/L 5 ug/L
		Total Petroleum Hydro – carbons (TPH) in Sol	73 soil samples collected from 25 borings	1' – 5' below ground surface	EPA 8015 Modified		TPH: 1,100 mg/kg in soil sample SUMP3012708-S1-5 at the 5-foot TPH: 1,500 mg/kg in soil sample SCS-012208-S1-1 at 1-foot depth	1,000 mg/kg

Attachment E (Continued)
SITE SCREENING ASSESSMENT SAMPLING EVENT SUMMARY TABLE

Site Name: Cherry Aerospace, 1224 E. Warner Avenue, Santa Ana, CA 92705 **Site Screener:** Rafiq Ahmed

Date	Event	Media	Location	Depth	Method	Quality	Result	Benchmark
05/02/08	Site Investigation	Petroleum Hydo-carbons in ground-water	Only two (2) of four (4) groundwater samples collected were in sufficient quantity due to slow and limited recharge	10' – 20' below ground surface	EPA 8015 Modified	QA/QC available	Toluene:0.51 ug/L near UST-2 tank TPH: 0.14 mg/L GRO: 1.2 mg/L near PW-1 area (Gasoline range organics)	
		Title 22 metals, Cyanides, and pH in soil	79 soil samples + 10 soil samples collected from four soil borings advanced in the vicinity of two USTs	1-foot	EPA 7199		Total Chromium: 200 mg/kg in one soil sample SUMP3012708-S1-1 pH: 7.2 to (high) 11 at storage area sump and trench drain Total Cyanide: 0.32 mg/kg to 1.3 mg/kg	Total Chromium is 1.4E+03 mg/kg EPA PRG for cyanides (free) is 1,200 mg/kg for industrial soils
05/2010	Further Investigation	Ground-water	20 ground-water samples from shallow and deeper zone wells	38' – 48' bgs for shallow zone and 55' – 70' bgs for deeper zone	EPA 8260B VOCs	QA/QC available	Maximum concentration of TCE was 1,100 ug/L in the shallow well and 400 ug/L in the deeper well)	TCE: 5 ug/L

Attachment 1

Site Location Map

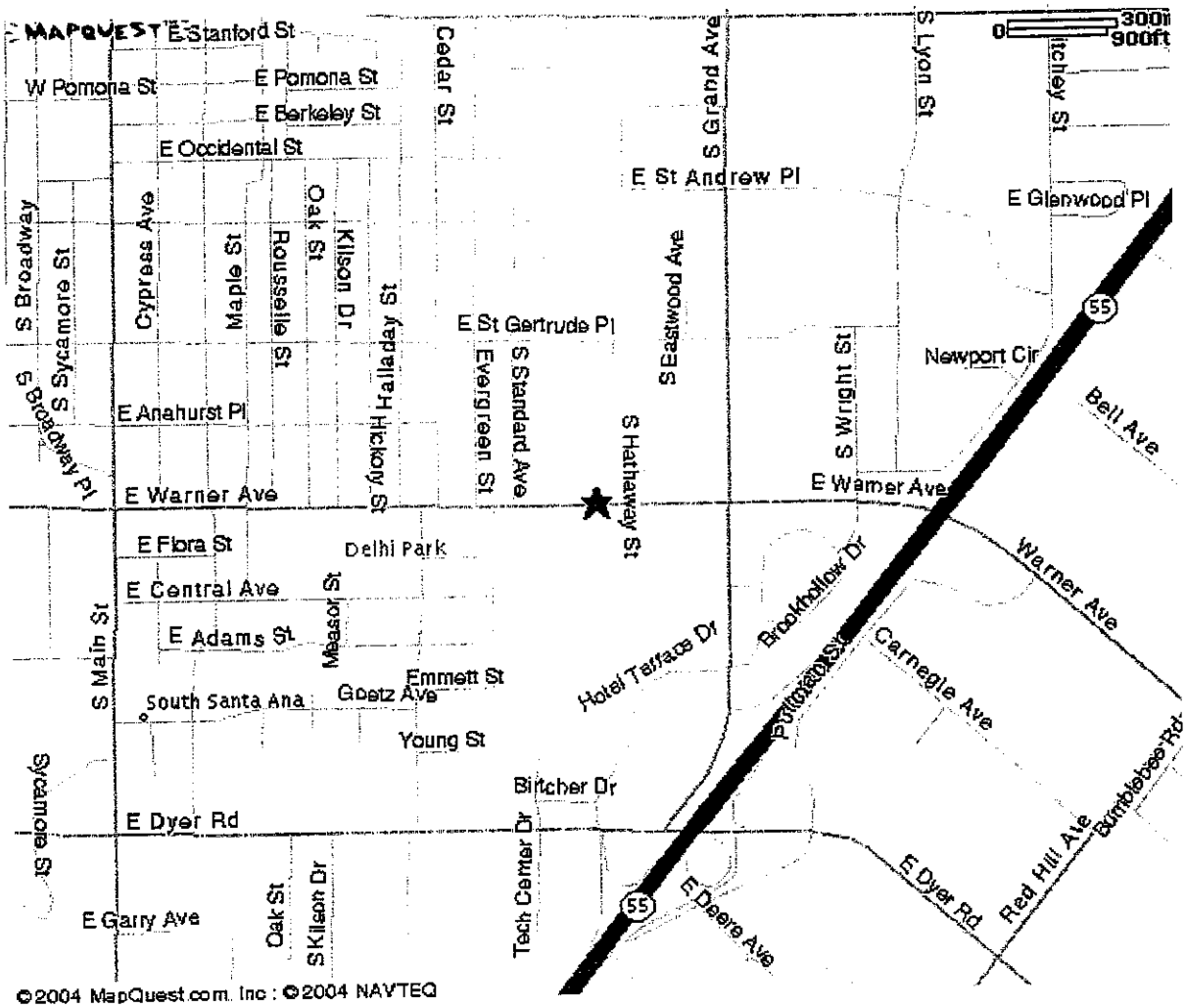
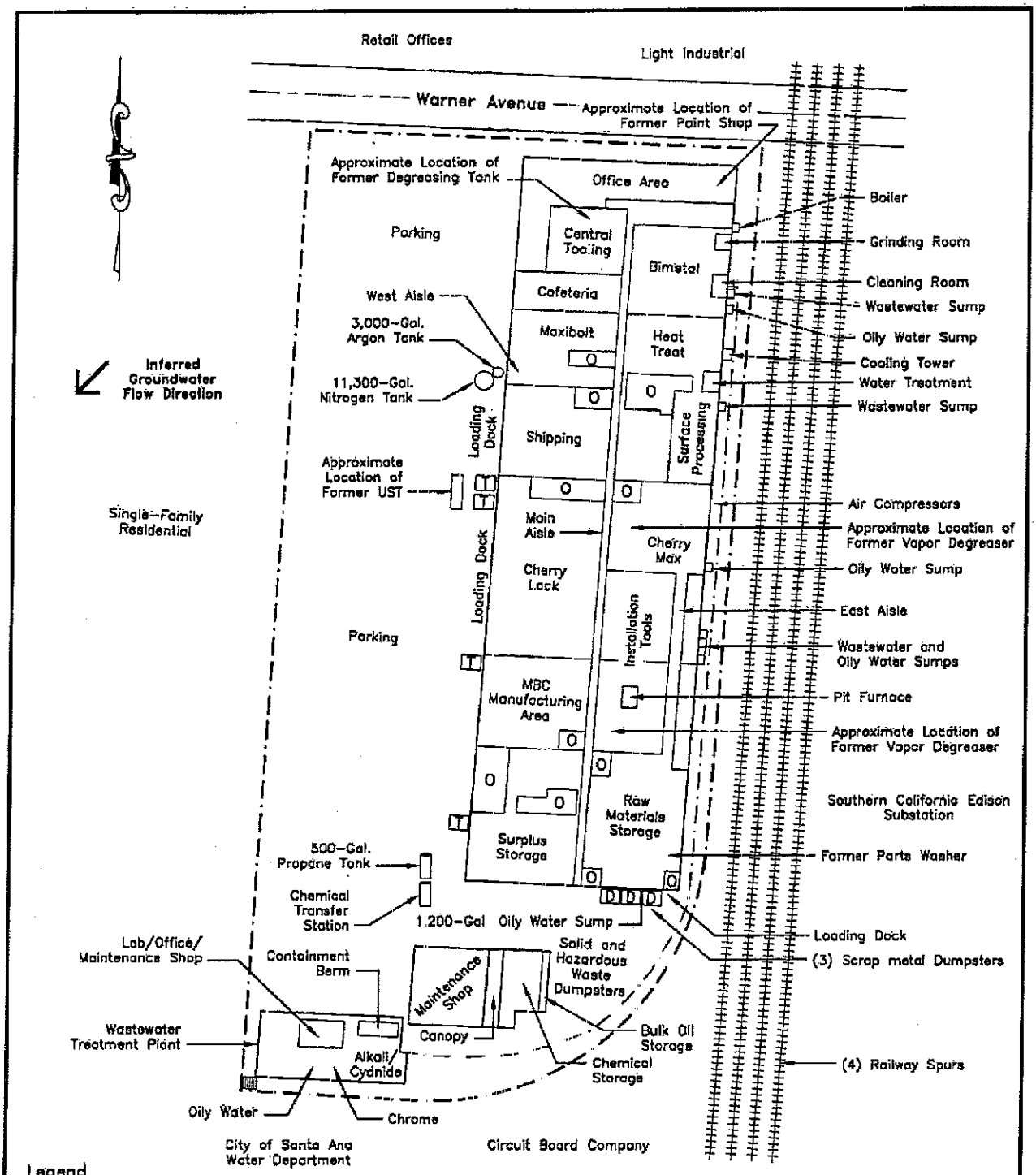


Figure 1 – Site Location Map

Department of Toxic Substances Control TPCAB	Project Name: Textron Fastening Systems 1224 East Warner Avenue Santa Ana, California 92707	Date: 02/05/04
	EPA I.D. Number: CAD008493603	Scale: unknown

Attachment 2

Site Plan



DRAWN:	K. Mongar
CHECKED:	S. Pilafas
DATE:	October 19, 2005
FILENAME:	06630180508
PROJECT NO:	00630-180-500

ENSR INTERNATIONAL

FIGURE 2

SITE PLAN

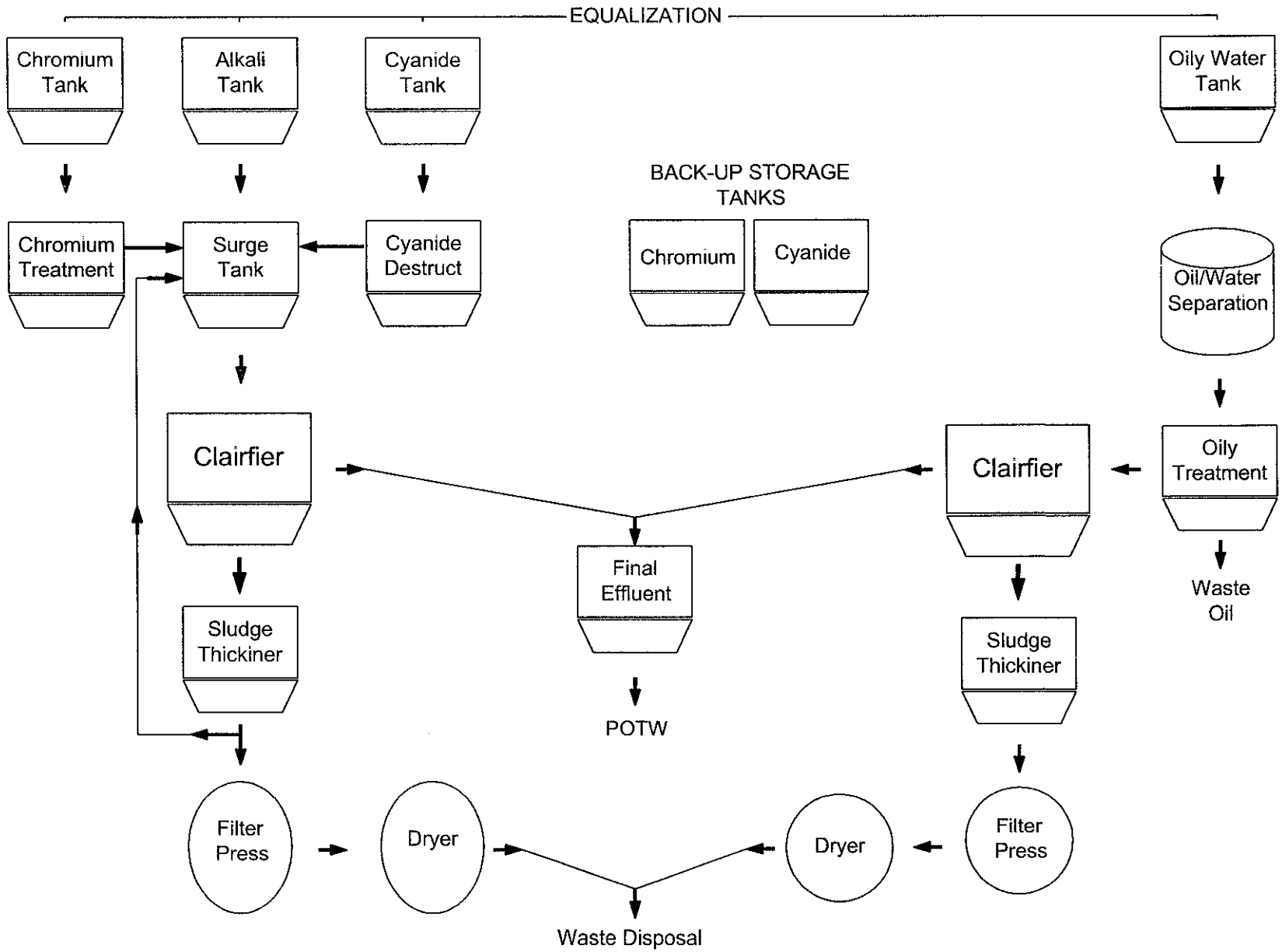
Textron Fastening Systems
1224 East Warner Avenue
Santa Ana, California 92707

OCWD_SB004542

Attachment 3

Wastewater Treatment Flow Diagram

CHERRY AEROSPACE
WASTEWATER TREATMENT
FLOW DIAGRAM



Attachment 4

Site Investigation Results

Attachment A
Cherry Aerospace – Santa Ana, California
Site Investigation Results

Summary of VOC Results

Volatile Organic Compounds in Soil

A total of 17 volatile organic compounds (VOCs) were detected in 100 soil samples above the method detection limit. The VOCs detected are listed on Table 1. The following paragraph and table list the highest concentrations detected in soil samples compared to VOC screening levels in soil developed by the US EPA Region 9 for industrial soils:

- 1,1,1-TCA: 33 milligrams per kilogram (mg/kg) in soil sample SSA-012308-S1-1'
- 1,1,2-TCA: 0.031 mg/kg detected in soil sample SSA-012308-S1-10'.
- 1,1-DCA: 2.9 mg/kg detected in soil sample SSA-012208-S2-10'.
- 1,1-DCE: 2 mg/kg detected in soil sample SSA-012308-S1-10'.
- 1,2-DCA: 0.037 mg/kg detected in soil sample SSA-012308-S1-1'.
- Cis-1,2-DCE: 29.0 mg/kg detected in soil sample DS-012408-S1-1'.
- Ethylbenzene: 0.0068 mg/kg detected in soil sample SSA-012308-S1-1'.
- Isopropylbenzene: 0.52 mg/kg detected in soil sample SUMP3012708-S1-5'.
- m, p-xylene: 0.016 mg/kg detected in soil sample SSA-012308-S1-1'.
- Methylene chloride: 0.19 mg/kg detected in soil sample SSA-012308-S1-1'.
- O-xylene: 0.0059 mg/kg detected in soil sample SSA-012308-S1-1'.
- Sec-butylbenzene: 0.93 mg/kg detected in soil sample SUMP3012708-S1-5'
- PCE: 28 mg/kg detected in soil sample SSA-012308-S1-1'.
- Toluene: 0.12 mg/kg detected in soil sample SSA-012308-S1-1'.
- Trans-1,2-DCE: 5.9 mg/kg detected in soil sample SUMP3012708-S1-5'.
- TCE: 8.7 mg/kg detected in soil sample SUMP2-012408-S1-10'.
- Vinyl chloride: 0.0073 mg/kg detected in soil sample SSA-012308-S1-1'.

Table 1				
VOC	**Sample ID with Highest Conc.**	**Concentration (mg/kg)**	**EPA Region IX PRG (1)**	**# of Samples Above PRG**
1,1,1-TCA	SSA-012308-S1-1'	33	1,200	None
1,1,2-TCA	SSA-012308-S1-10'	0.031	1.6	None
1,1-DCA	SSA-012208-S2-10'	2.9	1,700 (6)(2)	None
1,1-DCE	SSA-012308-S1-10'	2.0	410	None
1,2-DCA	SSA-012308-S1-1'	0.037	0.6	None
Cis-1,2-DCE	DS-012408-S1-1'	29.0	150	None
Ethylbenzene	SSA-012308-S1-1'	0.0068	400	None
Isopropylbenzene	SUMP3012708-S1-5'	0.52	2,000	None
m, p-xylene	SSA-012308-S1-1'	0.016	420(3)	None
Methylene chloride	SSA-012308-S1-1'	0.19	21	None
O-xylene	SSA-012308-S1-1'	0.0059	420(3)	None
Sec-butylbenzene	SUMP3012708-S1-5'	0.93	220	None
PCE	SSA-012308-S1-1'	28	1.3	11
Toluene	SSA-012308-S1-1'	0.12	520	None
Trans-1,2-DCE	SUMP3012708-S1-5'	5.9	230	None
TCE	SUMP2-012408-S1-10'	8.7	0.11 (6.5)(2)	20 (2)
Vinyl Chloride	SSA-012308-	0.0073	0.75	None

	S1-1'			

Notes:

(1) PRGs shown are Preliminary Remediation Goals developed by the US EPA Region 9 for industrial soils and assume a direct exposure model and based on continuous off-gassing of vapors over a 30 year period (October 2004).

(2) The second value shown is a California Modified PRG developed by the DTSC

(3) The PRG for m,p-xylene and o-xylene have not been developed separately. Value shown is for total xylenes

(4) California Human Health Screening Levels (CHHSLs) for contaminated properties prepared by Cal EPA have not been developed for bulk soils and Cal EPA recommends using soil gas concentrations for indoor exposure instead to determine risk.

Volatile Organic Compounds in Soil Gas

A total of 28 VOCs were detected above the MDL in 42 soil gas samples collected from the site. The highest VOC concentrations detected in soil gas from indoor locations are summarized below and compared to Cal EPA CHHSLs for VOCs for which CHHSLs for shallow soil gas are available. CHHSLs typically do not take into account site-specific factors such as the attenuation factors from the a thick floor slab with epoxy coatings, type of soil, or the depth of the soil gas sample and results in a soil gas screening value which is highly conservative. Therefore, the detected soil gas concentrations were used to calculate preliminary screening level health risk numbers using the Johnson & Ettinger vapor intrusion model used by the DTSC vapor intrusion guidance document (last modified January 2005). The results are presented in Table 2 below:

Table 2

Area	**Highest Soil Gas Conc. Detected for VOCs (ug/m3)**						
	Benzene	TCE	PCE	Vinyl Chloride	Cis-1,2-DCE	Trans 1,2-DCE	Toluene
Indoor Locations Only							
Former Vapor Degreaser – Central Tooling	820						4,200
Former Vapor Degreaser Cherry Max		1,100,000	--	--	--	--	
Former Parts Washer PW1 Heat Treat Area			6,700	--	--	--	
VOC Room			--	17,000	410,000	760,000	
CHHSLs (1) (Industrial/commercial sites)	*122*	*1,770*	*603*	*44.8*	*44,400*	*88,700*	*37,800*
# of Samples Exceeding CHHSLs	*4*	*9*	*6*	*5*	*2*	*2*	*None*

Risk using Johnson & Ettinger Model[2]	*0.19/100,000*	*33/100,000*	*0.51/100,000*	*6.8/100,000*	*HQ = 1.9*	*HQ = 1.7*	*HQ= 0.00273*

Notes:

(1) CHHSLs published by Cal EPA January 2005.

(2) Johnson & Ettinger Vapor Intrusion Model – from the DTSC's website at http://www.dtsc.ca.gov/AssessingRisk/JE_Models.cfm

The risk calculations above are preliminary and do not take into account all site-specific information.

A review of the soil gas data for both indoor and outdoor locations indicates the following:

- Soil gas samples from the upgradient sample location did not contain detectable concentrations of VOCs
- The highest TCE concentration in soil gas was detected in the soil gas sample from the former Cherrymax vapor degreaser area collected at a depth of 4.5 feet below the concrete floor level (deeper soil gas samples could not be collected due to refusal from encountering a secondary concrete slab at the 4.5 feet depth). The corresponding TCE concentration in soil was only 13 ug/kg, suggesting that the potential source is nearby and has not been defined.
- Detections of Freon 113 appear to be localized near the former solvent storage area and chemical storage area.
- Freon 11 was not detected in soil gas above the reporting limit
- A preliminary risk screening by comparing the soil gas concentrations to the CHHSLs developed by Cal EPA indicates a number of samples for the six of the seven VOCs for which CHHSLs are listed as exceeding the soil screening levels. However, the CHHSLs methodology cannot be used for setting site cleanup levels per the Cal EPA and do not take into account site-specific factors, such as slab thickness with any engineering controls already in-place such as epoxy coating which can change the attenuation factor, ventilation rate, and site-specific soil gas data (soil type, depth of sample).
- A preliminary risk analysis using the vapor intrusion model developed by Johnson & Ettinger indicated that using site-specific factors, the risk for benzene and PCE are below the threshold of 1 in 100,000 for commercial/industrial properties. The risk results for TCE and vinyl chloride are marginally higher than the allowable threshold listed above. The risk for cis-1,2-DCE and trans-1,2-DCE are based on route-to-route extrapolation and would need a more detailed exposure assessment. Therefore, a detailed risk assessment incorporating all site-specific information may indicate that the risks are acceptable.

Volatile Organic Compounds in Groundwater

Depth to groundwater varied at the site from approximately 10 feet to 20 feet below ground surface (bgs). Shallower groundwater was present (between 6 and 7 feet bgs along the eastern length of the site reportedly due to a broken sprinkler pipe in the area. Shallow groundwater was also present (approximately 6 feet bgs) in the southern portion in the vicinity of the wastewater sumps presumably from minor water infiltration from the sumps.

A total of four (4) groundwater samples were collected using a Geoprobe. The summary of the groundwater sampling results is presented below:

- The background groundwater sample collected from a relatively upgradient location to the site did not contain detectable concentrations of VOCs.
- The highest concentration of VOCs was detected in the groundwater sample from parts washer PW-1 located in the vicinity of the Heat Treat Area.
- The groundwater sample collected from the vicinity of a former UST did not contain any VOCs except for toluene at a concentration of 0.51 µg/L and total petroleum hydrocarbons (TPH) at 0.14 milligrams per liter (mg/L)
- Only two VOCs (1,1-DCA and 1,1-DCE) were detected in the groundwater sample collected from the southern edge of the site at concentrations of 9.3 µg/L and 3.5 µg/L, respectively.

Table 3 below summarizes the VOC results for groundwater samples and compares the data to US EPA's maximum contaminant levels (MCLs) for drinking water.

Table 3

VOC Detected	Sample ID with Highest Conc.	Concentration (µg/L)	EPA MCL [1] (µg/L)	# of Samples Above MCL
TCE	PW1-HP1	340	5	1
1,1-DCA	PW1-HP1	34	None	None
1,1-DCE	PW1-HP1	7.7	7	1
Toluene	UST2-HP1	0.51	1	None
PCE	PW1-HP1	12	5	1

Notes:

(1) MCLs from USEPA dated June, 2003

Comparison of VOCs Detected at Cherry Aerospace to IRWD Well and Upgradient Holchem Facility

Table 4

VOC Detected	VOCs Detected in IRWD Well IRWD-3	VOCs Detected in Groundwater at Cherry Aerospace	VOCs Detected in Soil/Soil Gas at Cherry Aerospace	VOCs Detected in Well SCC-D1 Upgradient
1,1,1-TCA	No	No	Yes	Yes
1,1,2-TCA	No	No	Yes	Yes
1,1-DCA	No	Yes	Yes	Yes
1,1-DCE	No	Yes	Yes	Yes
1,2-DCA	No	No	Yes	Yes
Cis-1,2-DCE	No	No	Yes	Yes
Benzene:	No	No	Yes	Yes
Freon 113	Trace	No	Yes	Yes
PCE	Yes	Yes	Yes	Yes
TCE	Yes	Yes	Yes	Yes
Toluene	No	Trace	Yes	Yes

Summary of Petroleum Hydrocarbon Results

Petroleum Hydrocarbons in Soil

A total of 73 soil samples collected from 25 soil borings were analyzed for total petroleum hydrocarbons (TPH) carbon-chain (C8-C40) and gasoline range organics (GRO) using EPA Method 8015 Modified. Detectable concentration of TPH was present in 14 of the soil samples. GRO concentrations were detected in six of the soil samples.

TPH concentration above 1,000 mg/kg was detected in only two soil samples identified below:

- TPH was detected at a concentration of 1,100 mg/kg primarily in the C18-C36 hydrocarbon range in the soil sample SUMP3012708-S1-5 at the 5-foot depth from the vicinity of Sump-3 located in the eastern portion of the facility.

- TPH was detected at a concentration of 1,500 mg/kg primarily in the C18-C36 hydrocarbon range in the soil sample SCS-012208-S1-1 at the 1-foot depth from the vicinity of Steam Cleaning Shed located in the southern portion of the facility
- TPH concentrations were detected in the 1-foot soil samples from the purported locations of the two former USTs. The maximum concentration detected was 440 mg/kg from soil sample UST1-012108-S1-1.

A GRO concentration above 100 mg/kg was not detected in any soil samples. The two areas where detectable concentrations of GRO were present are in the vicinity of Sump-3 and the former solvent storage area. GRO was not detected in the purported area of the two former USTs.

Petroleum Hydrocarbons in Groundwater

Due to a slow and limited recharge into the Geoprobe casing, only two (2) of the four groundwater samples collected were in sufficient quantity for TPH and GRO analysis. The summary of the groundwater sampling results for TPH/GRO is presented below:

- The groundwater sample collected from the vicinity of a former UST (UST-2) located in the southwestern portion of the facility did not contain any volatile aromatics or fuel oxygenates except for toluene at a concentration of 0.51 µg/L and TPH concentration oft 0.14 mg/L. The hydrocarbons detected are in the C10-C28 range, generally associated with diesel and lubricating oils
- A detectable concentration of GRO was detected in the groundwater sample from the parts washer PW-1 located in the vicinity of the Heat Treat Area at a concentration of 1.2 mg/L.

Summary of Title 22 Metals, Cyanides, and pH Analysis Results

Title 22 Metals, Cyanides, and pH Results for Soil

A total of 79 soil samples were analyzed for Title 22 Metals, cyanides, and pH. In addition, ten (10) soil samples collected from four soil borings advanced in the vicinity of the purported locations of the two USTs were analyzed for organic lead.

- Organic lead was not detected above the reporting limit in the 10 UST area soil samples analyzed.
- Metal concentrations are within the range of concentration for naturally occurring metals in soils in the conterminous United States.
- Two soil samples which contained elevated concentrations of total chromium were further analyzed for hexavalent chromium. One soil

sample from a cyanide wastewater sump area (Sump-3) identified as sample SUMP3012708-S1-1 from the 1-foot depth contained 200 mg/kg of total chromium which was analyzed for hexavalent chromium by EPA Method 7199 The sample was non-detected (below 0.40 mg/kg) for hexavalent chromium The second sample identified as

- One soil sample from a cyanide wastewater sump area (Sump-3) identified as sample SUMP3012708-S1-1 from the 1-foot depth contained 200 mg/kg of total chromium which was further analyzed for hexavalent chromium by EPA Method 7199. The sample was non-detected (below 0.40 mg/kg) for hexavalent chromium.
- The pH results for soil samples generally ranged from 7.2 to a high of 11 reported in two samples (reported at the chemical storage area sump and trench drain).
- Total cyanides were detected in 9 of the soil samples analyzed and ranged from 0.32 mg/kg to 1.3 mg/kg. The cyanide concentrations detected are limited to the cyanide wastewater sumps (Sump-3 and Sump-4) and the wastewater treatment plant and the wastewater collection tanks located to the south end of the facility. The EPA PRG for cyanides (free) is 1,200 mg/kg for industrial soils.

Table 4-6
Summary of Soil Gas Analytical Results- Volatile Organic Compounds
Cherry Aerospace (Former Textron Fastening Systems) Facility

Area of Interest	Location Description	Location ID	Sample Depth	Date Collected	Sample Type	1,1,1-TCA	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCB	1,2-DCP	1,3,5-TMB	2,2,4-TMP	MEK	2-Propanol	4-ET	Acetone	Benzene	Carbon Disulfide	CE	CFM	cis-1,2-DCE
	Shallow Soil Gas Commercial/Industrial Human Health Screening Levels					7,000,000	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	122	NE	NE	NE	120,000
Area of Interest	Location Description	Location ID	Sample Depth	Date Collected	Sample Type	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,3,4-Trimethylbenzene	1,2-Dichlorobenzene	1,2-Dichloropropane	1,3,5-Trimethylbenzene	2,2,4-Trimethylpentane	2-Butanone (Methyl Ethyl Ketone)	2-Propanol	4-Ethyltoluene	Acetone	Benzene	Carbon Disulfide	Chloroethane	Chloroform	cis-1,2-Dichloroethene
Lubricating Oil ASTs	East of Chemical Storage Building	AST-SG1	10	23-Jan-08		1300000	200000	1800000	--	--	--	--	--	--	--	--	--	21000 U	--	27000 U	27000 U	27000 U
		AST-SG1	20	23-Jan-08		100	100 U	200	--	--	--	--	--	--	--	--	--	83 U	--	100 U	100 U	100 U
Background	Northern property line	BG-SG1	5	28-Jan-08		100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	100 U
		BG-SG1	9	28-Jan-08		100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	100 U
		BG-SG2	6	05-May-10		1200 J	2400 UJ	2300 UJ	2900 UJ	3500 UJ	2700 UJ	2900 UJ	2800 UJ	1700 UJ	5800 UJ	2900 UJ	5600 UJ	1900 UJ	1800 UJ	1600 UJ	2900 UJ	2300 UJ
VOC Room with MEK and Toluene Booths	Adjacent C-Max Area/West of Dry Lube Shop	BTH-SG1	10	28-Jan-08		3300 U	7600	19000	--	--	--	--	--	--	--	--	--	2700 U	--	3300 U	3300 U	410000
		BTH-SG1	20	28-Jan-08		2500 U	6000	19000	--	--	--	--	--	--	--	--	--	2000 U	--	2500 U	2500 U	280000
		BTH-SG2	6	19-Apr-10		1100 U	3600	10000	960 U	1200 U	910 U	970 U	920 U	580 U	1900 U	970 U	1900 U	180 J	400 J	520 U	960 U	290000
		BTH-SG2	10	19-Apr-10		850 U	3200	9000	760 U	930 U	720 U	760 U	730 U	460 U	1500 U	760 U	220 J	160 J	360 J	410 U	760 U	220000
		BTH-SG2	18	19-Apr-10		1500 UJ	5300 J	13000 J	1400 UJ	1700 UJ	1300 UJ	1400 UJ	1300 UJ	840 UJ	2800 UJ	1400 UJ	2700 UJ	250 J	450 J	750 UJ	1400 UJ	310000 J
		BTH-SG3	6	19-Apr-10		320 U	760	940	290 U	360 U	270 U	290 U	280 U	180 U	580 U	290 U	250 J	64 J	600	160 U	290 U	60000
		BTH-SG3	6	19-Apr-10	Duplicate	390 UJ	780 J	980 J	350 UJ	430 UJ	330 UJ	350 UJ	330 UJ	210 UJ	700 UJ	350 UJ	200 J	75 J	630 J	190 UJ	350 UJ	66000 J
		BTH-SG3	10	19-Apr-10		430 U	920	1000	110 J	470 U	360 U	390 U	370 U	230 U	780 U	120 J	290 J	130 J	660	210 U	380 U	74000
Chemical storage area with sump and trench drain	Southern portion of site	CSA-SG1	5	24-Jan-08		66000	12000	140000	--	--	--	--	--	--	--	--	--	1000 U	--	1200 U	1200 U	1200 U
		CSA-SG1	10	23-Jan-08		480 J	160 J	3600 J	--	--	--	--	--	--	--	--	--	80 U	--	100 UJ	100 UJ	100 UJ
		CSA-SG2	6	18-Apr-10		23000 J	29000 J	460000 J	3700 UJ	4500 UJ	3400 UJ	3700 UJ	3500 UJ	2200 UJ	7300 UJ	3700 UJ	7100 UJ	2400 UJ	2300 UJ	2000 UJ	3600 UJ	3000 UJ
		CSA-SG3	6	18-Apr-10		810 UJ	17000 J	97000 J	730 UJ	890 UJ	680 UJ	730 UJ	690 UJ	440 UJ	1400 UJ	730 UJ	1400 UJ	470 UJ	460 UJ	380 UJ	720 UJ	2400 J
Former drum storage canopy	South of chemical storage building	DS-SG1	5	25-Jan-08		14000	29000	140000	--	--	--	--	--	--	--	--	--	2000 U	--	2500 U	2500 U	12000
		DS-SG1	10	25-Jan-08		100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	100 U
Office Area	Aisle way south of offices	OFF-SG1	6	19-Apr-10		62 UJ	46 UJ	45 UJ	56 UJ	68 UJ	52 UJ	56 UJ	53 UJ	31 J	7.1 J	56 UJ	280 J	36 UJ	120 J	30 UJ	55 UJ	230 J
		OFF-SG1	6	19-Apr-10	Duplicate	65 UJ	46 UJ	48 UJ	4.2 J	72 UJ	55 UJ	59 UJ	5.8 J	33 J	120 UJ	59 UJ	280 J	38 UJ	110 J	32 UJ	58 UJ	200 J
		OFF-SG1	10	19-Apr-10		65 UJ	48 UJ	47 UJ	21 J	72 UJ	55 UJ	9.8 J	56 UJ	40 J	120 UJ	23 J	180 J	11 J	22 J	31 UJ	58 UJ	200 J
Former Parts Washer	Heat Treat Area (CAE Ransohoff Equipment area)	PW1-SG1	5	28-Jan-08		1700 U	4500 J	5300 J	--	--	--	--	--	--	--	--	--	1300 U	--	1700 U	1700 U	29000 J
		PW1-SG1	5	28-Jan-08	Duplicate	15 U	39 J	43 J	13 U	16 U	12 U	13 U	12 U	7.9 U	26 U	13 U	32	6.6 U	8.4 U	7.1 U	13 U	300 J
		PW1-SG2	6	19-Apr-10		160 J	3700 J	8400 J	720 UJ	890 UJ	680 UJ	720 UJ	690 UJ	430 UJ	1400 UJ	720 UJ	610 J	470 UJ	700 J	390 UJ	720 UJ	37000 J
		PW1-SG2	10	19-Apr-10		140 J	3600	8500	820 U	1000 U	770 U	820 U	780 U	490 U	1600 U	820 U	380 J	530 U	750	440 U	810 U	40000
		PW1-SG2	15	19-Apr-10		670000 UJ	500000 UJ	490000 UJ	800000 UJ	740000 UJ	570000 UJ	800000 UJ	570000 UJ	360000 UJ	1200000 UJ	600000 UJ	1200000 UJ	380000 UJ	380000 UJ	320000 UJ	600000 UJ	490000 UJ
		PW1-SG3	6	18-Apr-10		860 U	4700	4600	780 U	950 U	730 U	780 U	740 U	470 U	1600 U	780 U	1500 U	100 J	490 U	420 U	180 J	33000
		PW1-SG3	10	18-Apr-10		100 J	3300 J	2800 J	330 UJ	400 UJ	310 UJ	330 UJ	310 UJ	200 UJ	660 UJ	330 UJ	270 J	120 J	190 J	180 UJ	140 J	28000 J
		PW1-SG3	15	18-Apr-10		150 UJ	120 J	83 J	140 UJ	170 UJ	130 UJ	140 UJ	130 UJ	83 UJ	280 UJ	140 UJ	54 J	90 UJ	87 UJ	74 UJ	140 UJ	960 J
		PW1-SG4	5	18-Apr-10		670 UJ	6200 J	9200 J	600 UJ	740 UJ	570 UJ	600 UJ	570 UJ	360 UJ	1200 UJ	600 UJ	1200 UJ	110 J	380 UJ	320 UJ	600 UJ	72000 J
	Cherrylock Area	PW2-SG1	10	27-Jan-08		100 U	130	110	--	--	--	--	--	--	--	--	--	180	--	100 U	100 U	100 U
		PW2-SG1	20	27-Jan-08		100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	81 U	--	100 U	100 U	100 U
	Former Boots Process Area	PW3-SG1	10	27-Jan-08		100 U	17000	11000	--	--	--	--	--	--	--	--	--	150	--	100 U	100 U	4100
Steam cleaning shed with sump	Southeast of wastewater treatment compound	SCS-SG1	5	23-Jan-08		3400	1300	8600	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	150
Former solvent storage area and sump	East of Chemical Storage Building	SSA-SG1	10	23-Jan-08		100 U	100 U	110	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	100 U
		SSA-SG1	20	23-Jan-08		8200	3600	13000	--	--	--	--	--	--	--	--	--	160 U	--	200 U	200 U	210
Oily water sump	Outside and next to Heat Treat Area	SUMP2-SG1	4.5	25-Jan-08		100 U	100 U	140	--	--	--	--	--	--	--	--	--	280	--	100 U	100 U	12000
	Outside and east of Cherry Max process area	SUMP5-SG1	10	25-Jan-08		100 U	100 U	300	--	--	--	--	--	--	--	--	--	880	--	100 U	100 U	100 U
Chrome, cyanide, alkali, and oily wastewater sumps	Outside and east of Cherry-Max process area	SUMP6-SG1	10	23-Jan-08		100 U	100 U	140	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	100 U
		SUMP6-SG1	20	23-Jan-08		100 U	100 U	110	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	100 U
SUMP-7: 1,200-gallon oily water sump	South of loading docks	SUMP7-SG1	10	23-Jan-08		14000	73000	42000	--	--	--	--	--	--	--	--	--	1000 U	--	9300	1200 U	51000
		SUMP7-SG1	20	23-Jan-08		2900	7200	2700	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	1500
		SUMP7-SG2	6	18-Apr-10		1200 J	23000 J	18000 J	490 UJ	490 UJ	140 J	400 UJ	380 UJ	240 UJ	59 J	400 UJ	150 J	40 J	82 J	360 J	400 UJ	10000 J
		SUMP7-SG3	6	18-Apr-10		140 J	52000 J	96000 J	830 UJ	1000 UJ	780 UJ	830 UJ	790 UJ	500 UJ	1600 UJ	830 UJ	1600 UJ	84 J	520 UJ	840 J	820 UJ	28000 J
		SUMP7-SG3	10	18-Apr-10		6200 UJ	1400 J	4500 UJ	5600 UJ	6800 UJ	5200 UJ	5600 UJ	5300 UJ	3300 UJ	11000 UJ	5600 UJ	11000 UJ	3600 UJ	3500 UJ	3000 UJ	5500 UJ	4500 UJ
Former UST (unknown product)	West of Electrical Substation	UST1-SG1	5	23-Jan-08		140 UJ	180 U	120 J	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	100 U
		UST1-SG1	5	23-Jan-08	Duplicate	5.7 UJ	4.2 U	4.1 UJ	7.8	6.3 U	4.8 U	5.1 U	6.4	3.1 U	10 U	7.1	26	7.8	3.2 U	2.8 U	5.1 U	4.1 U
	North of Maintenance Shop	UST2-SG1	5	23-Jan-08		1700	260	460	--	--	--	--	--	--	--	--	--	80	--	100 U	100 U	100 U
Former Vapor Degreaser	Cherrylock Area	VDCL-SG1	10	27-Jan-08		100 U	11000	3600	--	--	--	--	--	--	--	--	--	87	--	100 U	100 U	2200
		VDCL-SG1	20	27-Jan-08		100 U	1500	2500	--	--	--	--	--	--	--	--	--	480	--	100 U	100 U	300
	Cherry Max Area	VDCM-SG1	4.5	28-Jan-08		3300 U	4100	2900 J	--	--	--	--	--	--	--	--	--	2700 U	--	3300 U	3300 U	21000
		VDCM-SG2	4.75	19-Apr-10		1400 J	3100 J	1200 J	2200 UJ	2700 UJ	2100 UJ	2200 UJ	2100 UJ	1300 UJ	4400 UJ	2200 UJ	4200 UJ	1400 UJ	1400 UJ	1200 UJ	1600 J	42000 J
		VDCM-SG3	4.75	19-Apr-10		3600 J	3000 J	1900 J	2200 UJ	2700 UJ	2100 UJ	2200 UJ	2100 UJ	1300 UJ	4500 UJ	2200 UJ	4300 UJ	1400 UJ	1400 UJ	1200 UJ	1300 J	37000 J
		VDCM-SG4	4.75	19-Apr-10		1600 J	2800 J	1200 J	2000 UJ	2500 UJ	1900 UJ	2000 UJ	1900 UJ	1200 UJ	4100 UJ	2000 UJ	4000 UJ	1300 UJ	1300 UJ	1100 UJ	1800 J	25000 J
	Central Tooling	VDCT-SG1	10	27-Jan-08		100 U	110 J	100 U	--	--	--	--	--	--	--	--	--	820	--	100 U	100 U	290 J
		VDCT-SG1	10	27-Jan-08	Duplicate	6.8	4.5 UJ	4.4 U	24	36	5.2 U	8.8	10	3.4	11 U	24	19	35 J	3.5 U	3 U	5.5 U	16 J

Table 4-6
Summary of Soil Gas Analytical Results- Volatile Organic Compounds
Cherry Aerospace (Former Textron Fastening Systems) Facility

Area of Interest	Location Description	Location ID	Sample Depth	Date Collected	Sample Type	1,1,1-TCA	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCB	1,2-DCP	1,3,5-TMB	2,2,4-TMP	MEK	2-Propanol	4-ET	Acetone	Benzene	Carbon Disulfide	CE	CFM	cis-1,2-DCE
Shallow Soil Gas Commercial/Industrial Human Health Screening Levels						7,000,000	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	122	NE	NE	NE	120,000
Main wastewater collection sump at end of trench carrying wastewater	East of wastewater treatment compound	WCS-SG1	10	25-Jan-08		250	330	2100	--	--	--	--	--	--	--	--	--	190	--	100 U	100 U	100 U
		WCS-SG1	16	25-Jan-08		230	1400	26000	--	--	--	--	--	--	--	--	--	440	--	100 U	100 U	100 U
Wastewater collection tanks:Two oily wastewater pools;chrome wastewater tank; Alkali wastewater tank;	Southwestern portion of site	WCT-SG1	5	25-Jan-08		570	2300	3300	--	--	--	--	--	--	--	--	--	80 U	--	100 U	190	550
		WCT-SG2	5	25-Jan-08		1100	3600	11000	--	--	--	--	--	--	--	--	--	80 U	--	100 U	440	980
		WCT-SG3	5	25-Jan-08		700 J	780 J	1700	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	740 J
		WCT-SG3	5	25-Jan-08	Duplicate	180 J	160 J	1700	54	14 U	11 U	13	11 U	6.8 U	23 U	38	32	23	7.2 U	6.1 U	11 U	120 J
Wastewater treatment plant for chrome and cyanide wastewater with treatment area surface epoxy sealed and three sumps	Southwestern portion of site	WTP-SG1	10	27-Jan-08		100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	220
		WTP-SG1	20	27-Jan-08		100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	570
		WTP-SG2	10	27-Jan-08		100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	100 U
		WTP-SG2	20	27-Jan-08		100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	80 U	--	100 U	100 U	100 U

Notes:
Results are in ug/m3
"--" = Not Analyzed
NE = Not Established
Bolded Values exceed CHHSLs
Only results detected in at least one sample are presented in this table.
100 U = Nondetect result at a reporting limit of 100
J = Estimated value

CHHSLs = California Human Health Screening Levels.Values from the Sept. 2009 Table 2.
Soil-Gas-Screening Numbers for Volatile Chemicals below Buildings Constructed with Engineered Fill below Sub-slab Gravel

CE = Chloroethene; CFM = Chloroform; DCA = Dichloroethane;DCB = Dichlorobeznene; DCE = Dichloroethene; DCP = Dichloropropane; EB = Ethylbenzene; EDB = Ethylene Dibromide (1,2-Dibromoethane); ET = Ethyltoluene; MEK = Methyl Ethyl Ketone (2-Butanone); MPX = m,p-Xylene; MTBE = Methyl tert-butyl ether; PCE = Tetrachloroethene; TCA = Trichloroethane; TCE = Trichloroethene; TMB = Trimethylbenzene; TMP = Trimethylpentane; VC = Vinyl Chloride

Soil gas samples analyzed by a fixed laboratory and by EPA Method 8260B for the January 2008 soil gas samples and by EPA Method TO-15 for the April-May FI Sampl

Table 4-6
Summary of Soil Gas Analytical Results- Volatile Organic Compounds
Cherry Aerospace (Former Textron Fastening Systems) Facility

Area of Interest	Location Description	Location ID	Sample Depth	Date Collected	Sample Type	Cyclohexane	Ethanol	EB	Freon 113	Freon 12	Heptane	Hexane	MPX	Methylene Chloride	o-Xylene	PCE	Toluene	trans-1,2-DCE	TCE	VC
	Shallow Soil Gas Commercial/Industrial Human Health Screening Levels					NE	NE	NE	NE	NE	NE	NE	2,200,000	NE	2100000	1600	378000	240000	4,400	95
Area of Interest	Location Description	Location ID	Sample Depth	Date Collected	Sample Type	Cyclohexane	Ethanol	Ethyl Benzene	Freon 113	Freon 12	Heptane	Hexane	m,p-Xylene	Methylene Chloride	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Lubricating Oil ASTs	East of Chemical Storage Building	AST-SG1	10	23-Jan-08		--	--	27000 U	6200000	27000 U	--	--	53000 U	27000 U	27000 U	60000	53000 U	27000 U	28000	27000 U
		AST-SG1	20	23-Jan-08		--	--	100 U	480 U	100 U	--	--	200 U	100 U	100 U	100 U	200 U	100 U	100 U	100 U
Background	Northern property line	BG-SG1	6	28-Jan-08		--	--	100 U	100 U	100 U	--	--	200 U	100 U	100 U	100 U	200 U	100 U	100 U	100 U
		BG-SG1	10	28-Jan-08		--	--	100 U	100 U	100 U	--	--	200 U	100 U	100 U	100 U	200 U	100 U	100 U	100 U
		BG-SG2	6	05-May-10		2000 UJ	4400 UJ	2600 UJ	4500 UJ	2900 UJ	2400 UJ	2100 UJ	2600 UJ	2000 UJ	2600 UJ	4000 UJ	780 J	2300 UJ	3200 UJ	1500 UJ
VOC Room with MEK and Toluene Booths	Adjacent C-Max Area/West of Dry Lube Shop	BTH-SG1	10	28-Jan-08		--	--	3300 U	3300 U	3300 U	--	--	6700 U	3300 U	3300 UJ	3300 U	6700 U	760000	610000	14000
		BTH-SG1	20	28-Jan-08		--	--	2500 U	2500 U	2500 U	--	--	5000 U	2500 U	2500 UJ	2500 U	3600 J	760000	350000	17000
		BTH-SG2	6	19-Apr-10		680 U	1200 J	850 U	1500 U	970 U	800 U	190 J	850 U	680 U	850 U	1300 U	200 J	680000	350000	9400
		BTH-SG2	10	19-Apr-10		49 J	1200 J	680 U	1200 U	770 U	640 U	170 J	680 U	540 U	680 U	1000 U	410 J	520000	350000	8300
		BTH-SG2	18	19-Apr-10		680 UJ	1400 J	1200 UJ	2200 UJ	1400 UJ	1200 UJ	280 J	410 J	990 UJ	1200 UJ	1900 UJ	740 J	980000 J	650000 J	12000 J
		BTH-SG3	6	19-Apr-10		200 U	1200 J	260 U	160 J	45 J	240 U	67 J	260 U	210 U	260 U	400 U	140 J	180000	65000	760
		BTH-SG3	6	19-Apr-10	Duplicate	240 UJ	770 J	310 UJ	120 J	350 UJ	290 UJ	70 J	310 UJ	250 UJ	310 UJ	480 UJ	150 J	190000 J	77000 J	750 J
		BTH-SG3	10	19-Apr-10		270 U	240 J	130 J	140 J	390 U	320 U	68 J	570	270 U	140 J	310 J	820	200000	110000	780
Chemical storage area with sump and trench drain	Southern portion of site	CSA-SG1	5	24-Jan-08		--	--	1200 U	430000	1200 U	--	--	2500 U	1200 U	1200 U	1600	2500 U	1200 U	1200 U	1200 U
		CSA-SG1	10	23-Jan-08		--	--	100 UJ	4000 J	100 UJ	--	--	200 UJ	100 UJ	100 UJ	100 UJ	200 UJ	100 UJ	100 UJ	100 UJ
		CSA-SG2	6	18-Apr-10		380 J	3300 J	3200 UJ	2600000 J	7400 J	3000 UJ	2600 UJ	3200 UJ	2600 UJ	3200 UJ	3300 J	2800 UJ	3000 UJ	4400 J	1900 U
		CSA-SG3	6	18-Apr-10		510 UJ	3600 J	640 UJ	460000 J	9000 J	610 UJ	520 UJ	640 UJ	510 UJ	640 UJ	1900 J	560 UJ	590 UJ	4700 J	390 J
Former drum storage canopy	South of chemical storage building	DS-SG1	5	25-Jan-08		--	--	2500 U	990000	2500 U	--	--	5000 U	2500 U	2500 U	11000	5000 U	2500 U	2500 U	2500 U
		DS-SG1	10	25-Jan-08		--	--	100 U	100	100 U	--	--	200 U	100 U	100 U	320	200 U	100 U	100 U	100 U
Office Area	Aisle way south of offices	OFF-SG1	6	19-Apr-10		5 J	600 J	49 UJ	87 UJ	56 UJ	13 J	38 J	17 J	39 UJ	49 UJ	77 UJ	44 J	140 J	690 J	13 J
		OFF-SG1	6	19-Apr-10	Duplicate	3.7 J	470 J	52 UJ	92 UJ	59 UJ	49 UJ	40 J	27 J	42 UJ	52 UJ	81 UJ	50 J	88 J	600 J	13 J
		OFF-SG1	10	19-Apr-10		4.3 J	350 J	22 J	81 UJ	59 UJ	49 UJ	32 J	70 J	41 UJ	18 J	81 UJ	73 J	20 J	560 J	13 J
Former Parts Washer	Heat Treat Area (CAE Ransohoff Equipment area)	PW1-SG1	5	28-Jan-08		--	--	1700 U	1700 U	1700 U	--	--	3300 U	1700 U	1700 UJ	6700 J	1600 J	7100 J	390000 J	1700 U
		PW1-SG1	5	28-Jan-08	Duplicate	8.3 U	37	12 U	21 U	13 U	11 U	9.5 U	12 U	8.4 U	12 U	120 J	22 J	37 J	3700 J	6.8 U
		PW1-SG2	6	18-Apr-10		510 UJ	750 J	640 UJ	1100 UJ	730 UJ	600 UJ	520 UJ	640 UJ	510 UJ	640 UJ	14000 J	94 J	9600 J	650000 J	1300 J
		PW1-SG2	10	19-Apr-10		570 U	1200 U	720 U	710 J	820 U	680 U	590 U	720 U	580 U	720 U	15000	160 J	6400	680000	1400
		PW1-SG2	15	19-Apr-10		420000 UJ	930000 UJ	530000 UJ	940000 UJ	610000 UJ	500000 UJ	430000 UJ	530000 UJ	430000 UJ	530000 UJ	830000 UJ	460000 UJ	490000 UJ	340000 J	310000 UJ
		PW1-SG3	6	18-Apr-10		540 U	6400	680 U	1200 U	780 U	650 U	560 U	690 U	550 U	690 U	15000	97 J	4800	610000	370 J
		PW1-SG3	10	18-Apr-10		24 J	7600 J	280 UJ	120 J	330 UJ	270 UJ	86 J	290 UJ	230 UJ	290 UJ	2700 J	150 J	2600 J	260000 J	310 J
		PW1-SG3	15	18-Apr-10		96 UJ	2300 J	120 UJ	210 UJ	140 UJ	110 UJ	99 UJ	120 UJ	42 J	120 UJ	320 J	15 J	110 J	25000 J	72 UJ
		PW1-SG4	6	18-Apr-10		420 UJ	7000 J	530 UJ	940 UJ	610 UJ	500 UJ	430 UJ	530 UJ	430 UJ	530 UJ	3300 J	460 UJ	10000 J	550000 J	1300 J
	Cherrylock Area	PW2-SG1	10	27-Jan-08		--	--	150	100 U	100 U	--	--	510	100 U	100 UJ	4900	1800	100 U	630	100 U
		PW2-SG1	20	27-Jan-08		--	--	100 U	100 U	100 U	--	--	200 U	100 U	100 UJ	100 U	200 U	100 U	100 U	100 U
	Former Boots Process Area	PW3-SG1	10	27-Jan-08		--	--	100	100 U	100 U	--	--	320	100 U	100 UJ	7200	1200	1700	19000	180
Steam cleaning shed with sump	Southeast of wastewater treatment compound	SCS-SG1	5	23-Jan-08		--	--	100 U	4600	100 U	--	--	200 U	100 U	100 U	19000	430	100 U	1200	100 U
Former solvent storage area and sump	East of Chemical Storage Building	SSA-SG1	10	23-Jan-08		--	--	100 U	440	100 U	--	--	200 U	100 U	100 U	100 U	200 U	100 U	100 U	100 U
		SSA-SG1	20	23-Jan-08		--	--	200 U	57000	200 U	--	--	400 U	200 U	200 U	1500	400 U	200 U	390	200 U
Oily water sump	Outside and next to Heat Treat Area	SUMP2-SG1	4.5	25-Jan-08		--	--	180	100 U	100 U	--	--	620	100 U	130	190	2600	690	31000	100 U
	Outside and east of Cherry Max process area	SUMP5-SG1	10	25-Jan-08		--	--	320	100 U	100 U	--	--	1400	100 U	290	270	5100	100 U	800	100 U
Chrome, cyanide, alkali, and oily wastewater sumps	Outside and east of Cherry Max process area	SUMP6-SG1	10	23-Jan-08		--	--	100 U	260 U	100 U	--	--	200 U	100 U	100 U	100 U	200 U	100 U	100 U	100 U
		SUMP6-SG1	20	23-Jan-08		--	--	100 U	230 U	100 U	--	--	200 U	100 U	100 U	100 U	200 U	100 U	100 U	100 U
SUMP-7: 1,200-gallon oily water sump	South of loading docks	SUMP7-SG1	10	23-Jan-08		--	--	1200 U	330000	1200 U	--	--	2500 U	1200 U	1200 U	23000	2500 U	1200 U	3700	1200 U
		SUMP7-SG1	20	23-Jan-08		--	--	100 U	8200	100 U	--	--	200 U	100 U	100 U	3000	320	100 U	360	100 U
		SUMP7-SG2	6	18-Apr-10		32 J	7600 J	350 UJ	230000 J	6400 J	330 UJ	280 UJ	350 UJ	280 UJ	350 UJ	19000 J	310 UJ	210 J	4300 J	95 J
		SUMP7-SG3	6	18-Apr-10		580 UJ	4000 J	730 UJ	510000 J	16000 J	690 UJ	580 UJ	730 UJ	580 UJ	730 UJ	45000 J	630 UJ	540 J	9400 J	520 J
		SUMP7-SG3	10	18-Apr-10		3900 UJ	4400 J	4900 UJ	4900 J	5600 UJ	4600 UJ	4000 UJ	4900 UJ	3900 UJ	4900 UJ	7700 UJ	4300 UJ	4500 UJ	6100 UJ	2900 UJ
Former UST (unknown product)	West of Electrical Substation	UST1-SG1	5	23-Jan-08		--	--	140 J	300 J	100 U	--	--	490 J	100 U	150 J	360 J	1100 J	100 U	100 U	100 U
		UST1-SG1	5	23-Jan-08	Duplicate	6.8	7.9 U	10 J	8 J	5.2 U	7.8	11	36 J	3.6 U	12 J	8.9 J	72 J	4.1 U	5.6 U	2.7 U
	North of Maintenance Shop	UST2-SG1	5	23-Jan-08		--	--	100 U	3700	100 U	--	--	200 U	100 U	100 U	3200	580	100 U	160	100 U
Former Vapor Degreaser	Cherrylock Area	VDCL-SG1	10	27-Jan-08		--	--	100 U	100 U	100 U	--	--	320	100 U	100 UJ	2900	980	620	19000	380
		VDCL-SG1	20	27-Jan-08		--	--	220	100 U	100 U	--	--	820	100 U	190 J	930	3300	190	2600	340
	Cherry Max Area	VDCM-SG1	4.5	28-Jan-08		--	--	3300 U	20000	3300 U	--	--	6700 U	3300 U	3300 UJ	3300 U	6700 U	21000	1100000	3300 U
		VDCM-SG2	4.75	19-Apr-10		1500 UJ	820 J	1900 UJ	12000 J	2200 UJ	1800 UJ	1500 UJ	1900 UJ	1500 UJ	1900 UJ	6100 J	1700 UJ	22000 J	1900000 J	1100 UJ
		VDCM-SG3	4.75	19-Apr-10		1600 UJ	1100 J	2000 UJ	13000 J	2200 UJ	1900 UJ	1600 UJ	2000 UJ	1600 UJ	2000 UJ	8300 J	1700 UJ	23000 J	1500000 J	1200 UJ
		VDCM-SG4	4.75	19-Apr-10		1400 UJ	3100 UJ	1800 UJ	11000 J	2000 UJ	1700 UJ	1500 UJ	1800 UJ	1400 UJ	1800 UJ	16000 J	1600 UJ	15000 J	1900000 J	1100 UJ
	Central Tooling	VDCT-SG1	10	27-Jan-08		--	--	410 J	100 U	100 U	--	--	1600 J	100 U	340 J	470 J	4200 J	130 J	12000 J	100 U
		VDCT-SG1	10	27-Jan-08	Duplicate	5.8	25	31 J	8.6 U	5.5 U	17	15	110 J	3.9 U	33 J	19 J	210 J	4.5 J	580 J	2.9 U

Table 4-6
Summary of Soil Gas Analytical Results- Volatile Organic Compounds
Cherry Aerospace (Former Textron Fastening Systems) Facility

Area of Interest	Location Description	Location ID	Sample Depth	Date Collected	Sample Type	Cyclohexane	Ethanol	EB	Freon 113	Freon 12	Heptane	Hexane	MPX	Methylene Chloride	o-Xylene	PCE	Toluene	trans-1,2-DCE	TCE	VC
Shallow Soil Gas Commercial/Industrial Human Health Screening Levels						NE	NE	NE	NE	NE	NE	NE	2,200,000	NE	2100000	1600	378000	240000	4,400	95
Main wastewater collection sump at end of trench carrying wastewater	East of wastewater treatment compound	WGS-SG1	10	25-Jan-08		--	--	150	100 U	100 U	--	--	510	100 U	120	1200	1800	100 U	120	100 U
		WGS-SG1	15	25-Jan-08		--	--	170	100 U	100 U	--	--	570	100 U	140	280	2600	100 U	100 U	100 U
Wastewater collection tanks:Two oily wastewater pools;chrome wastewater tank;	Southwestern portion of site	WCT-SG1	5	25-Jan-08		--	--	100 U	3200	100 U	--	--	220	100 U	100 U	8500	500	100 U	510	100 U
		WCT-SG2	5	25-Jan-08		--	--	100 U	7000	100 U	--	--	230	100 U	100 U	14000	450	100 U	820	100 U
		WCT-SG3	5	25-Jan-08		--	--	100 U	5000 J	100 U	--	--	200 U	100 U	100 U	2400 J	200 U	100 U	220 J	100 U
Alkali wastewater tank;		WCT-SG3	5	25-Jan-08	Duplicate	8 U	18 U	25	600 J	12 U	10	8.2 U	120	8.1 U	42	3500 J	150	9.2 U	170 J	6 U
Wastewater treatment plant for chrome and cyanide wastewater with treatment area surface epoxy sealed and three sumps	Southwestern portion of site	WTP-SG1	10	27-Jan-08		--	--	100 U	100 U	100 U	--	--	200 U	100 U	100 UJ	960	200 U	100 U	370	100 U
		WTP-SG1	20	27-Jan-08		--	--	100 U	100 U	100 U	--	--	200 U	100 U	100 UJ	1500	200 U	100 U	370	100 U
		WTP-SG2	10	27-Jan-08		--	--	100 U	100 U	100 U	--	--	200 U	100 U	100 UJ	240	200 U	100 U	100 U	100 U
		WTP-SG2	20	27-Jan-08		--	--	100 U	100 U	100 U	--	--	200 U	100 U	100 UJ	200	200 U	100 U	100 U	100 U

Notes:
Results are in ug/m3
"--" = Not Analyzed
NE = Not Established
Bolded Values exceed CHHSLs
Only results detected in at least one sample are presented in this table.
100 U = Nondetect result at a reporting limit of 100
J = Estimated value

CHHSLs = California Human Health Screening Levels.Values from "Use of CHHSLs in Evaluation of Contaminated Properties, January 2005, California EPA.

CE = Chloroethene; CFM = Chloroform; DCA = Dichloroethane;DCB = Dichlorobeznene; DCE = Dichloroethene; DCP = Dichloropropane; EB = Ethylbenzene; EDB = Ethylene Dibromide (1,2-Dibromoethane); ET = Ethyltoluene; MEK = Methyl Ethyl Ketone (2-Butanone); MPX = m,p-Xylene; MTBE = Methyl tert-butyl ether; PCE = Tetrachloroethene; TCA = Trichloroethane; TCE = Trichloroethene; TMB = Trimethylbenzene; TMP = Trimethylpentane; VC = Vinyl Chloride

Table 4-7
Summary of Groundwater Analytical Results - Volatile Organic Compounds
Cherry Aerospace (Former Textron Fastening Systems) Facility

Area of Interest	Location Description	Location ID	Sample Depth	Date Collected	Sample Type	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	1,2-DCA	1,4-Dioxane	Benzene	Bromomethane	CFM	Chloromethane	cis-1,2-DCE	Methylene chloride	Naphthalene	PCE	Toluene	trans-1,2-DCE	TCE	VC
					MCLs	200	5	5	6	0.5	3 (NL)	1	NE	NE	NE	6	5	17 (NL)	5	150	10	5	0.5
Background/Potential Upgradient Sources	Asphalt-paved driveway; NE corner of property	MW1D	61-68	5/13/2010		0.50 U	0.50 U	0.97	5.5	0.50 U	5.4	0.50 U	0.50 U	0.50 U	0.50 U	0.76	5.6	0.50 U	1.2	0.88	0.50 U	18	0.50 U
		MW1S	42-52	5/13/2010		0.50 U	0.50 U	0.50 U	0.89	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	2.7	0.50 U
	Asphalt-paved driveway; NW corner of property in parking space	MW2D	55-65	5/11/2010		0.50 U	0.50 U	33	120	14	49	0.50 U	0.50 U	1.3	0.50 U	110	1.0 U	0.50 U	5.7	0.50 U	0.91	210	8.2
		MW2S	42-52	5/11/2010		0.50 U	0.50 U	16	260	7.7	40	0.50 U	0.50 U	1.0	0.50 U	76	1.6	0.50 U	6.7	0.50 U	0.58	350	5.9
Former Parts Washer and Degreasers Inside Building	Western side of manufacturing building	MW3D		5/12/2010		0.50 U	0.50 U	0.69	15	0.50 U	5.1	0.54	0.50 U	0.50 U	0.50 U	0.70	12	0.50 U	0.50 U	0.50 U	0.50 U	71	0.50 U
		MW3D	55-70	5/12/2010	Duplicate	0.50 U	0.50 U	0.78	17	0.50 U	5.1	0.63	0.50 U	0.50 U	0.50 U	0.78	14	0.50 U	0.50 U	0.50 U	0.50 U	79	0.50 U
		MW3S		5/11/2010		2.0 U	2.0 U	11	17	2.0 U	3.3	2.0 U	2.0 U	2.0 U	2.0 U	15	4.0 U	2.0 U	5.8	2.0 U	2.0 U	900	2.0 U
		MW3S	38-48	5/11/2010	Duplicate	2.0 U	2.0 U	11	17	2.0 U	3.5	2.0 U	2.0 U	2.0 U	2.0 U	16	4.0 U	2.0 U	5.5	2.0 U	2.0 U	940	2.0 U
Potential Offsite Sources to East	South of oily water sump	MW4D	62-69	5/19/2010		0.50 U	0.50 U	0.50 U	9.8	0.50 U	10	0.50 U	0.50 U	0.60	0.50 U	0.65	6.7	0.50 U	2.8	0.66	0.50 U	92	0.50 U
		MW4S	43-53	5/19/2010		0.50 U	0.50 U	0.50 U	8.4	0.50 U	6.3	0.50 U	0.50 U	0.50 U	0.50 U	0.65	2.1	0.56	6.8	0.50 U	0.50 U	100	0.50 U
	Southeast corner of manufacturing building	MW5D	61-71	5/13/2010		0.50 U	0.50 U	0.67	9.1	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.2	0.50 U	0.75	0.50 U	0.50 U	55	0.50 U
		MW5S	43-53	5/14/2010		0.50 U	0.81	2.2	35	0.50 U	3.6	0.50 U	0.50 U	0.50 U	0.50 U	0.99	1.0 U	0.50 U	7.9	0.50 U	0.50 U	280	0.50 U
Former Parts Washer, Chemical Booths, and Former Cherrylock Degreaser	Southwestern side of manufacturing building	MW6D	55-65	5/12/2010		1.0 U	1.0 U	1.6	52	1.0 U	3.3	1.0 U	1.0 U	1.1	1.0 U	3.4	5.7	1.0 U	1.0 U	1.0 U	1.0 U	400	1.0 U
		MW6S	42-50	5/12/2010		2.0 U	2.0 U	2.0 U	3.6	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	6.4	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1100	2.0 U
Former Solvent Storage Area, Drum Storage Area, ASTs, and Chemical Storage Building	South of chemical storage building along property line	MW7D	57-72	5/18/2010		0.50 U	0.50 U	1.5	11	0.50 U	6.2	0.50 U	0.50 U	0.50 U	0.50 U	0.58	1.0 U	0.50 U	3.4	0.50 U	0.50 U	40	0.50 U
		MW7S	42-47	5/18/2010		0.50 U	0.50 U	15	130	0.50 U	66	0.89	0.50 U	0.50 U	0.50 U	4.4	1.0 U	0.50 U	75	0.50 U	0.50 U	200	0.50 U
Wastewater Collection Sump and Steam Cleaning Shed with Sump	South of steam cleaning shed near the property line	MW8D	57-72	5/18/2010		0.50 U	0.50 U	9.6	24	0.50 U	5.3	0.50 U	0.50 U	0.50 U	0.50 U	2.2	1.0 U	0.50 U	4.1	0.50 U	0.50 U	160	0.50 U
		MW8S	37-47	5/17/2010		0.50 U	0.50 U	26	24	0.50 U	5.2	0.50 U	0.50 U	0.50 U	0.50 U	1.6	1.0 U	0.50 U	4.5	0.50 U	0.50 U	170	0.50 U
Existing Wastewater Sumps Along Southwestern Property Boundary	Southwestern portion of property, north of wastewater treatment compound	MW9D	58-68	5/17/2010		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.54	0.50 U	1.0	0.50 U	0.50 U	0.50 U	0.50 U	2.1	0.50 U
		MW9S	41-48	5/14/2010		0.50 U	0.50 U	0.83	2.6	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	5.6	3.6	0.50 U	0.50 U	0.50 U	0.50 U	260	0.50 U
Former Parts Washer	Heat Treat Area (CAE Ransohoff Equipment area)	PW1-HP1	10	1/27/2008		0.50 U	0.50 U	34	7.7	0.50 U	--	0.59	0.50 U	0.50 U	0.50 U	280	1.0 U	0.50 U	12	0.50 U	24	340	1.7
Former UST (unknown product)	North of Maintenance Shop	UST2-HP1	10	1/22/2008		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.51	0.50 U	0.50 U	0.50 U
Sump at southwest corner of wastewater treatment unit	Southwestern portion of site	WTP-HP1	20	1/28/2008		0.50 U	0.50 U	9.3	3.5	0.50 U	--	0.50 U	0.50 U	0.50 U	0.61	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Background sample	Northern property line	BG-HP1	20	1/28/2008		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
		BG-HP1	20	1/28/2008	Duplicate	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	7.4	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
VOC Room with MEK and Toluene Booths	Adjacent C-Max Area/West of Dry Lube Shop	BTH-S3/HP1	20	4/19/2010		5.0 U	5.0 U	8.6	5.6	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	740	10 U	5.0 U	5.0 U	5.0 U	340	3200	5.0 U
Chemical storage area with sump and trench	Southern portion of site	CSA-S5/HP2	25	4/9/2010		1.5	0.50 U	75	160	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	6.2	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.51	0.50 U
		CSA-S4/HP3	25	4/9/2010		0.50 U	0.50 U	230	440	0.50 U	--	0.50 U	0.50 U	0.50 U	0.50 U	83	1.0 U	0.50 U	67	0.50 U	1.0	22	1.6

NOTES
Groundwater Samples analyzed for VOCs by EPA Method 8260B; for 1,4-dioxane by EPA Method 8270C, and for Title 22 Metals by EPA Method 6010/7470.
Results are in µg/L
"--" = Not Analyzed
Only results detected in at least one sample are presented in this table.
100 U = Nondetect result at a reporting limit of 100
J = Estimated value
MCL = California Maximun Contaminant Limit (California Code Regulation, Title 22)
NE = Not Established
NL =Notification Level. Notification levels are health-based advisory levels established by California Department of Public Health for chemicals in drinking water that lack MCLs.
CFM = Chloroform; DCA = Dichloroethane; DCE = Dichloroethene;
PCE = Tetrachloroethene; TCA = Trichloroethane; TCE = Trichloroethene; VC = Vinyl
Bolded values exceed MCL

Table 4-8
Summary of Groundwater Analytical Results - Hydrocrabons
Cherry Aerospace (Former Textron Fastening Systems) Facility

Area of Interest	Location Description	Location ID	Sample Depth	Date Collected	Sample Type	GRO	T/R Hydrocarbons: C10-C18	T/R Hydrocarbons: C18-C28	T/R Hydrocarbons: C8-C40 Total
Former Parts Washer	Heat Treat Area (CAE Ransohoff Equipment area)	PW1-HP1	10	1/27/2008		1.2	0.20 U	0.20 U	0.20 U
Former UST (unknown product)	North of Maintenance Shop	UST2-HP1	10	1/22/2008		0.20 U	0.050	0.085	0.14

Notes:
Results are in mg/L
GRO = Gasoline Range Organics
Samples analyzed by EPA Method 8015 Modified

Table 4-9
Summary of Groundwater Analytical Results - Metals
Cherry Aerospace (Former Textron Fastening Systems) Facility

Area of Interest	Location Description	Location ID	Depth or Screened Interval	Date Collected	Sample Type	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Thallium	Vanadium	Zinc
	MCLs					**0.006**	**0.01**	**;**	**0.004**	**0.005**	**0.05**	**NE**	**1.3 (AL)**	**0.015 (AL)**	**2**	**NE**	**0.1**	**0.05**	**0.002**	**0.050 (NL)**	**5.0#**
Background/Potential Upgradient Sources	Asphalt-paved driveway; NE corner of property	MW1S	42-52	5/13/2010		0.010 U	0.020 U	0.030	0.0060 U	0.0060 U	0.0060 U	0.0060 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.020 U	0.030 U	0.0060 U	0.020 U
	Asphalt-paved driveway; NW corner of property	MW2S	42-52	5/11/2010		0.0050 U	0.010 U	0.032	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0050 U	0.0050 U	0.20 U	0.0050 U	0.0050 U	0.035	0.015 U	0.0034	0.014
Former Parts Washoer and Degreasers Inside Building	Western side of manufacturing building	MW3S	38-48	5/11/2010		0.0050 U	0.010 U	0.023	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0050 U	0.0050 U	0.20 U	0.0050 U	0.0051	0.016	0.015 U	0.0042	0.010 U
		MW3S		5/11/2010	Duplicate	0.0050 U	0.010 U	0.020	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0050 U	0.0050 U	0.20 U	0.0050 U	0.0050 U	0.013	0.015 U	0.0034	0.010 U
Potential Offsite Sources to East	South of oily water sump	MW4S	43-53	5/19/2010		0.0050 U	0.010 U	0.029	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0050 U	0.0050 U	0.20 U	0.0050 U	0.0050 U	0.014	0.015 U	0.0052	0.010
	Southeast corner of manufacturing	MW5S	42-53	5/14/2010		0.025 U	0.050 U	0.029	0.015 U	0.015 U	0.015 U	0.015 U	0.025 U	0.025 U	0.20 U	0.025 U	0.025 U	0.050 U	0.075 U	0.015 U	0.050 U
Former Parts Washer, Chemical Booths, and Former Cherrylock Degreaser	Southwestern side of manufacturing building	MW6S	42-60	5/12/2010		0.0050 U	0.010 U	0.024	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0050 U	0.0050 U	0.20 U	0.0050 U	0.0050 U	0.010 U	0.015 U	0.0035	0.010 U
Former Solvent Storage Area, Drum Storage Area, ASTs, and Chemical Storage Building	South of chemical storage building along property line	MW7S	42-47	5/18/2010		**0.042**	0.050 U	0.040	0.015 U	0.015 U	0.015 U	0.023	0.025 U	0.025 U	0.20 U	0.025 U	0.025 U	0.050 U	0.075 U	**0.37**	0.083
Wastewater Collection Sump and Steam Cleaning Shed with Sump	South of steam cleaning shed near the property line	MW8S	37-47	5/17/2010		0.0050 U	0.010 U	0.034	0.0030 U	0.0030 U	0.0032	0.0030 U	0.0050 U	0.0050 U	0.20 U	0.0050 U	0.0050 U	0.010 U	0.015 U	0.0065	0.012
Existing Wastewater Sumps Along Southwestern Property Boundary	Southwestern portion of property, north of wastewater treatment compound	MW9S	41-48	5/14/2010		0.0050 U	0.010 U	0.030	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0050 U	0.0050 U	0.20 U	0.0050 U	0.0050 U	0.014	0.015 U	0.0043	0.010 U
Former Parts Washer	Heat Treat Area (CAE Ransohoff Equipment area)	PW1-HP1	10	1/27/2008		**0.0062**	**0.011**	0.11	0.0032	**0.0061**	**0.092**	0.061	0.047	**0.016**	0.20 U	0.010	**0.18**	0.010 U	**0.019**	**0.083**	0.13
Former UST (unknown product)	North of Maintenance Shop	UST2-HP1	10	1/22/2008		0.0050 U	0.010 U	0.082	0.0030 U	**0.0073**	**0.092**	0.025	0.023	0.0050 U	0.20 U	0.022	0.026	0.010 U	0.015 U	0.018	0.047
Sump at southwest corner of wastewater treatment unit	Southwestern portion of site	WTP-HP1	20	1/28/2008		0.0050 U	0.011	0.14	0.0030 U	**0.033**	**0.085**	0.036	0.085	**0.033**	0.20 U	0.054	0.097	0.011	0.015 U	**0.051**	0.18
Background sample	Northern property line	BG-HP1	20	1/28/2008		0.0050 U	0.010 U	0.23	0.0030 U	0.0074	0.040	0.021	0.087	**0.036**	0.21	0.023	0.038	0.010 U	0.015 U	**0.057**	0.24

Notes:
Results are in mg/L for all metals, except mercury which are µg/L
Only results detected in at least one sample are presented in this table
100 U = Nondetect result at a reporting limit of 100
Bolded values exceed MCL
J = Estimated value
MCL = California Maximun Contaminant Limit (California Code Regulation, Title 22)
AL = Action Level
NE = Not Established
NL =Notification Level. Notification levels are health-based advisory levels established by California Department of Public Health for chemicals in drinking water that lack MCLs.
# = Secondary MCL
Samples analyzed by EPA Method 6010/7470.

Attachment 5

Tank Schedule

Table 1
TANK SCHEDULE

Tank Number	Year In Service	Vessel Description	Size (LxWxD) or Ø	Gross Volume (gallons)	Net Volume (gallons)	Wall thickness (inches)	Secondary Containment (gallons)
		Unit 1 (Metals Waste)					
4T-1	~2006	Alkali Collection Tank (Polyethylene)	10'Ø x 98"	4,650	4,650	1/4	27,500
4T-2	~1982	Alkali Containment Sump (Concrete)	25' x 20' x 100"	31,200	27,500	6	N/A
4T-3	~2006	Cyanide Collection Tank (Polyethylene)	10'Ø x 98"	4,650	4,650	1/4	27,500
4T-4	~1982	Cyanide Containment Sump (Concrete)	25' x 20' x 100"	31,200	27,500	6	N/A
4T-5	~2006	Chrome Collection Tank (Polyethylene)	10'Ø x 98"	4,650	4,650	1/4	27,500
4T-6	~1982	Chrome Containment Sump (Concrete)	25' x 20' x 100"	31,200	27,500	6	N/A
1T-1	~1982	Surge Tank (FRP)	11' x 34" x 5'	1,150	700	1/2	1,500
1T-2	~1982	Cyanide Oxidation Tank (FRP)	12' x 5' x 58"	2,150	1,780	5/8	25,800
1T-2(A&B)	~2006	Cyanide Ion Exchnage Tanks (FRP)(SC)	14"Ø x 48"	25	25	3/16	50
1T-3 (A-D)	~1982	Chrome Reduction Tanks (FRP)	8' x 5' x 5'	1,500	1,300	1/2	1,500
1CL-1	~1982	Lamella Clarifier (Mild Steel)	72" x 78" x 216"	5,200	4,700	1/4	25,800
1T-4	~1982	Sludge Thickener (Polyethylene)	11' Ø x 15'	5,400	4,800	5/8	25,800
		Unit 3 (Metals Waste Dryer)					
1DR-1	~2006	Metal Sludge Dryer (Mild Steel)					25,800
		Unit 2 (Oily Waste)					
2T-1	~1982	Oily Water Pool (Concrete)	42.5' x 20' x 8'	51,000	38,000	6	N/A
2T-2	~1982	Oily Pool Sump (Concrete)	7.5' x 20' x 8'	9,000	6,700	6	N/A
2T-3 (A&B)	~1982	Oily Waste (FRP)	192" x 174" x 64"	9,140	6,860	1/2	25,800
2T-4(A&B)	~1982	Oily Treatment (Polypropylene)	84" x 48" x 36"	630	525	3/4	25,800
2CL-2	~1997	Lamella Clarifier (Mild Steel)	72" x 78" x 216"	5,000	4,500	1/4	25,800
2T-5	~1997	Sludge Thickener (Polyethylene)	120"Ø x 190"	7,000	6,400	5/8	25,800
		Unit 4 (Oily Waste Dryer)					
2DR-1	~2006	Oily Waste Dryer (Mild Steel)	3.5' x 2' x 2'	120	90	1/4	25,800
		Chemical Storage					
3T-1	~2000	Sulfuric Acid (Polyethylene) (SC)	42"Ø x 50"	300	265	1/4	25,800
3T-2	~2000	Sodium Hydroxide (Polyethylene) (SC)	42"Ø x 50"	300	265	1/4	25,800
3T-3	~2000	Sodium Hypochlorite (Polyethylene)	42"Ø x 50"	300	265	1/4	25,800
3T-4	~2000	Sodium Bisulfite (Polyethylene)	52"Ø x 72"	450	420	3/8	25,800
3T-4A	~2000	Sodium Bisulfite (Polyethylene)	42"Ø x 50"	300	265	1/4	25,800
3T-5A	~1982	Hydrochloric Acid (Polyethylene)	42" x 36" x 36"	275	275	~3/8	25,800
3T-7	~2006	Anti-Foaming Agent (Polyethylene)	24"Ø x 36"	55	55	1/4	25,800
3T-8	~2000	93% Sulfuric Acid (Polyethylene)	60"Ø x 84"	1,000	1,000	1/4	9,366
3T-9	~2008	Sodium Hydroxide (Polyethylene) (SC)	72"Ø x 120"	1,700	1,700	3/8	6,190
3T-10	~2003	Sodium Hypochlorite (12.5%) (Polyethylene)	60"Ø x 103"	2,000	1,600	5/16	6,190
3T-11	~2000	Caustic Alkali Liquids (Polyethylene)	42"Ø x 50"	300	265	1/4	25,800
3T-14	~2007	Wastewater Compound (Stainless Steel)	24" x 40" x 36"	150	150	3/16	25,800
3T-15	~2008	Odor Neutralizer (Polyehylene)	24"Ø x 48"	90	90	3/8	1,500
		Other and Inactive					
4T-13	~1982	Weir Box (FRP)	90" x 47" x 47"	850	530	1/2	1,500
9	~2006	Hydrochloric Acid (Polyethylene)	24"Ø x 36"	55	55	1/4	1,500
1	~1982	Sand Filter (Mild Steel) (Inactive)	108"Ø x 216"	5,000	4,370	1/4	N/A
2	~2005	Cyanide Backup Storage Tank (Inactive)	72"Ø x 108"	1,900	1,900	1/2	N/A
3	~2005	Chrome Backup Storage Tank (Inactive)	72"Ø x 84"	1,480	1,480	1/2	N/A
4	~1981	Sodium Hydroxide (Mild Steel) (Inactive)	96"Ø x 156"	5,000	4,900	N/A	N/A
5	~1982	Soap Wastewater (PVC) (Inactive)	56" x 48" x 36"	400	295	1/2	N/A

(SC) Denotes Dedicated Tank Containment in Addition to Secondary Containment

Attachment 6

Site Photos

23/3/2010 00:02:00

1224
23/3/2011 1:58

23/3/2010 2:00

Attachment 7

EnviroStor Site Map

ENVIROSTOR

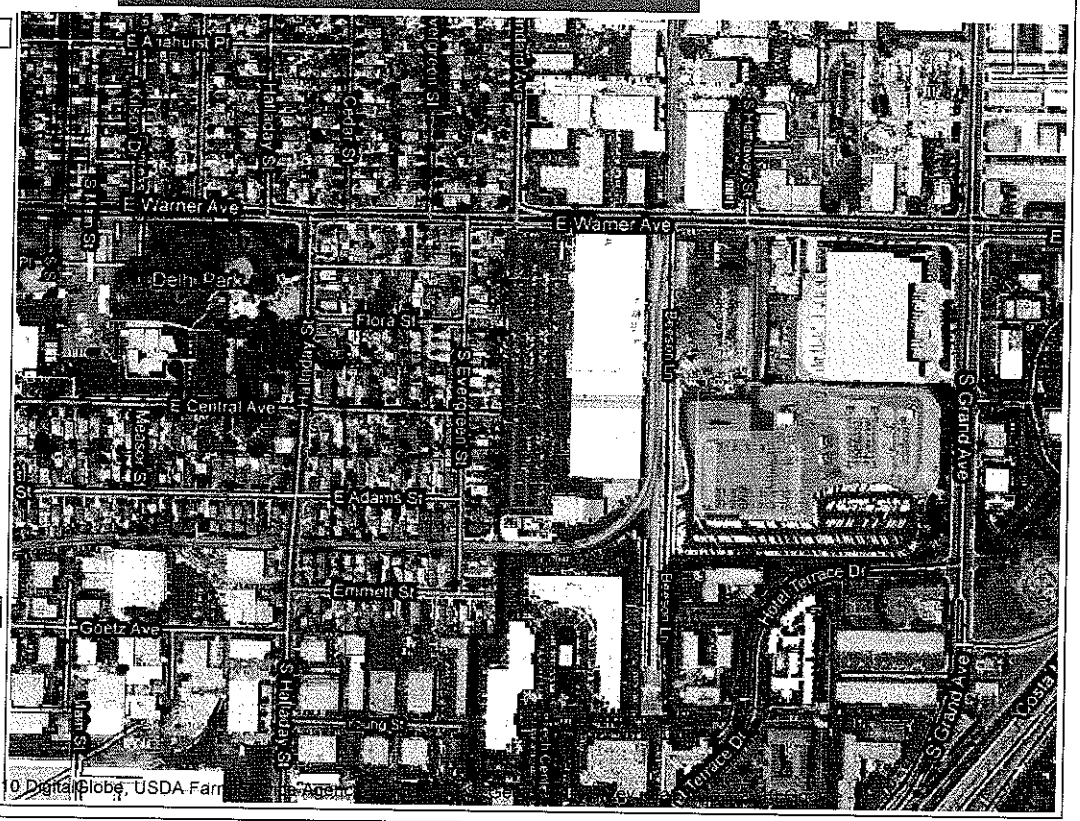
LAYERS

- [x] Federal Superfund
- [x] State Response
- [x] Voluntary Cleanup
- [x] School Cleanup
- [x] Evaluation
- [x] School Investigation
- [x] Military Evaluation
- [x] Corrective Action
- [x] Haz Waste Permit
- [ ] GeoTracker LUFT
- [ ] GeoTracker SLIC
- [ ] Public Water Wells

MAP SIZE

640x480

15 Sites



SITE LIST

PROJECT NAME	PROJECT TYPE	ADDRESS	CITY
CHERRY AEROSPACE	CORRECTIVE ACTION	1224 E WARNER STREET	SANTA ANA
DICEON ELECTRONICS	EVALUATION	2215 S STANDARD AVE	SANTA ANA
DIESEL LOGISTICS	EVALUATION	1331 E. WARNER AVE	SANTA ANA
EMBEE PLATING	CORRECTIVE ACTION	2144 SOUTH HATHAWAY	SANTA ANA
EXTRUDED PLASTICS COMPANY	EVALUATION	2201 SOUTH STANDARD AVENUE	SANTA ANA
GALLADE CHEMICAL INC	CORRECTIVE ACTION	1230 E SAINT GERTRUDE PL	SANTA ANA
GE PLASTICS	EVALUATION	1831 E CARNEGIE AVE	SANTA ANA

MAP AN ADDRESS: 1224 E WARNER AVENUE SANTA ANA, CA 92705 Go!